KLP LOAN

APPLICATION FOR FINANCIAL ASSISTANCE

Revised 4/99

IMPORTANT: Please consult the "Instructions for Completing the Project Application" for assistance in completion of this form.

SUBDIVISION: CITY OF	BLUE ASH CO	DDE# <u>061</u> - <u>0730</u>	<u>D</u>
DISTRICT NUMBER: 2	COUNTY: Ham	<u>ilton</u>	DATE <u>09 / 09 / 06</u>
CONTACT: JOHN L. E. CONTACT PERSON SHOULD BE THE INDIVIDUAL RESPONSE TO QUESTIONS)	SENMANN, P.E., LL WHO WILL BE AVAILABLE DI	P.S. PHONE :	# (513) 791 - 1700 (THE PROJECT NO WHO CAN BEST ANSWER OR COORDINATE THE
FAX (513) 791-1936		E-MAIL jei	senmann@cds-assoc.com
PROJECT NAME: BLUE	ASH ROAD & HU	INT ROAD IM	PROVEMENTS
SUBDIVISION TYPE (Check Only !)1. County x_2. City3. Township4. Village _5. Water/Sanitary District (Section 6119 or 6117 O.R.C.)	FUNDING TYPE RECEDED (Check All Requested & Enter Amount 1. Grant 2. Loan \$\frac{\$1.445,000.00}{\$3. Loan Assistance \$\frac{\$5.65}{\$5.65}\$}		PROJECT TYPE (Check Largest Component) x_1. Road2. Bridge/Culvert3. Water Supply4. Wastewater5. Solid Waste6. Stormwater
TOTAL PROJECT COST:	\$ <u>1,515,000.00</u>	_ FUNDING R	REQUESTED:\$ <u>1,445,000.00</u>
То	DISTRICT RECO		DNLY
GRANT:\$	LOA	N ASSISTANO	CE:\$
SCIP LOAN: \$	RATE:	.% TERM:	yrs.
RLP LOAN: \$ <u>1,445,00</u>	O RATE: O	% TERM:	<u>/ 0</u> yrs.
(Check Only 1) X State Capital Improvement Pr Local Transportation Improv	ements Program		rnment Program
以外,他们就是一个人,我们也是一个人,不是一个人。	- 11 mar - 11		
	FOR OPWC	USE ONLY	
PROJECT NUMBER: C/(CLOCAL Participation	% %	Loan Interest R Loan Term:	:/

1

1.0 PROJECT FINANCIAL INFORMATION

1.1	PROJECT ESTIMATED COSTS: (Round to Nearest Dollar)		TOTAL	. DOLLARS	FORCE ACCOUNT DOLLARS
a.)	Basic Engineering Services:		\$.00	
	Preliminary Design \$ Final Design \$ Bidding \$ Construction Phase \$.00 .00 .00			
	Additional Engineering Services *Identify services and costs below.		\$.00	
b.)	Acquisition Expenses: Land and/or Right-of-Way		\$.00	
c.) d.)	Construction Costs: Equipment Purchased Directly:		\$1, \$	384 <u>,078.00</u> .00	
e.)	Permits, Advertising, Legal: (Or Interest Costs for Loan Assistance Applications Only)		\$.00	
f.)	Construction Contingencies:		\$	130,922.00	
g.)	TOTAL ESTIMATED COSTS:		\$ <u> 1,</u>	515,000.00	
*List A	Additional Engineering Services here: e:	Cost:			

1.2	PROJECT FINANCIAL RESOU (Round to Nearest Dollar and Percent)	URCES:	
		DOLLARS	%
a.)	Local In-Kind Contributions	\$	
b.)	Local Revenues	\$	
c.)	Other Public Revenues GCWW ODOT Rural Development OEPA OWDA CDBG	\$ 20,000.00 \$.00 \$.00 \$.00 \$.00 \$.00	<u>1%</u>
	OTHER MRF (2007)	\$ 50,000.00	3%
	SUBTOTAL LOCAL RESOURCE	CES: \$ 70,000.00	4%
d.)	OPWC Funds 1. Grant 2. Loan 3. Loan Assistance	\$	<u>96%</u>
	SUBTOTAL OPWC RESOURCE	ES: \$ <u>1,445,000.00</u>	<u>96%</u>
e.)	TOTAL FINANCIAL RESOURCE	CES: \$ <u>1,515,000.00</u>	_100%
1.3	AVAILABILITY OF LOCAL FU	JNDS:	
	Attach a statement signed by the <u>Chief</u> funds required for the project will be Schedule section.	Financial Officer listed in s available on or before the	ection 5.2 certifying <u>all local shar</u> earliest date listed in the Projec
	ODOT PID# STATUS: (Check one) Traditional Local Planning Agency State Infrastructure Ba		

1.2

2.0 PROJECT INFORMATION

If project is multi-jurisdictional, information must be consolidated in this section.

2.1 PROJECT NAME: BLUE ASH ROAD AND HUNT ROAD IMPROVEMENTS

2.2 BRIEF PROJECT DESCRIPTION - (Sections A through C):

A: SPECIFIC LOCATION:

Blue Ash Road from southern corporation limit to Cooper Road, Hunt Road from 150' west of West Avenue to Blue Ash Road, Hamilton County, Ohio.

PROJECT ZIP CODE: _	45242
---------------------	-------

B: PROJECT COMPONENTS:

Blue Ash Road is a 31' back to back concrete pavement with integral curbs and an asphalt surface overlay that has exceeded its service life. Pavement cores are evidence that the concrete has failed and will no longer support the bus and vehicular traffic loads. The geotechnical report recommends total pavement replacement or rubbelization. Hunt Road has been impacted by localized drainage problems. The entire storm sewer system is substandard as evidenced by video records. Water pressure and flow to the area is low due to increased demand to the northeast.

C: PHYSICAL DIMENSIONS:

Blue Ash Road south of Ronald Reagan Highway is a three-lane (10' each) roadway with a center double left turn lane. Blue Ash Road north of Ronald Reagan Highway is a two-lane (12' each) road. Blue Ash Road has curb and gutter along the entire length with the gutter paved over.

Hunt Road is a two-lane (12' each) road without paved shoulders.

D: DESIGN SERVICE CAPACITY:

Detail current service capacity versus proposed service level.

Road or Bridge: Current ADT 10,184 (Blue Ash Road) Year: 2002 Projected ADT: Year: Current ADT 6,016 (Hunt Road) Year: 2002 Projected ADT: Year:

<u>Water/Wastewater:</u> Based on monthly usage of 7,756 gallons per household, attach current rate ordinance. Current Residential Rate: \$______ Proposed Rate: \$

Stormwater: Number of households served: 260

2.3 USEFUL LIFE / COST ESTIMATE: Project Useful Life: 30 Years - Roadway

Attach <u>Registered Professional Engineer's</u> statement, with <u>original seal and signature</u> confirming the project's useful life indicated above and estimated cost.

3.0 REPAIR/REPLACEMENT or NEW/EXPANSION:

TOTAL PORTION OF PROJECT REPAIR/REPLACEMENT \$\,_1,515,000.00\$

TOTAL PORTION OF PROJECT NEW/EXPANSION \$\,_00\$

4.0 PROJECT SCHEDULE: *

		BEGIN DATE	END DATE
4.1	Engineering/Design:	01 / 15 / 07	05 / 25 / 07
4.2	Bid Advertisement and Award:	10 / 18 / 07	12 / 13 / 07
4.3	Construction:	01 / 14 / 08	11/30/08
4.4	Right-of-Way/Land Acquisition:	06 / 18 / 07	11/30/07

^{*} Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by the CEO of record and approved by the commission once the Project Agreement has been executed. The project schedule should be planned around receiving a Project Agreement on or about July 1st.

5.0 PROJECT OFFICIALS:

5.1	CHIEF EXECUTIVE OFFICER TITLE STREET CITY/ZIP	Mr. Dennis E. Albrinck Service Director City of Blue Ash 4343 Cooper Road City of Blue Ash, Ohio 45242
	PHONE	(513 <u>) 745 – 8545</u>
	FAX	(513) <u>745 – 8594</u>
	E-MAIL	Dalbrinck@blueash.com
5.2	CHIEF FINANCIAL	
	OFFICER	Mr. James S. Pfeffer
	TITLE	Administrative Services Director
	STREET	City of Blue Ash
		4343 Cooper Road
	CITY/ZIP	City of Blue Ash, Ohio 45242
	PHONE	(513 <u>) 745 – 8507</u>
	FAX	(513 <u>) 745</u> – <u>8594</u>
	E-MAIL	Jpfeffer@blueash.com
5.3	PROJECT MANAGER TITLE	Mr. John L. Eisenmann, P.E., P.S. City Engineer
	STREET	CDS Associates, Inc.
		11120 Kenwood Road
	CITY/ZIP	Cincinnati, Ohio 45242
	PHONE	(513 <u>) 791</u> – <u>1700</u>
	FAX	(513) <u>791 – 1936</u>
	E-MAIL	Jeisenmann@cds-assoc.com

Changes in Project Officials must be submitted in writing from the CEO.

6.0 ATTACHMENTS/COMPLETENESS REVIEW:

Confirm in the blocks [] below that each item listed is attached.

- [x] A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- [x] A certification signed by the applicant's chief financial officer stating all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO, which identifies a specific revenue source for repaying the loan also, must be attached. Both certifications can be accomplished in the same letter.
- [x] A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's original seal or stamp and signature.
- [N/A] A cooperation agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- [N/A] Projects which include new and expansion components <u>and</u> potentially affect productive farmland should include a statement evaluating the potential impact. If there is a potential impact, the Governor's Executive Order 98-VII and the OPWC Farmland Preservation Review Advisory apply.
- [x] Capital Improvements Report: (Required by O.R.C. Chapter 164.06 on standard form)
- [x] Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements, which may be required by your *local* District Public Works Integrating Committee.

7.0 APPLICANT CERTIFICATION:

The undersigned certifies that: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement on this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Dennis E. Albrinck, Service Director

Certifying Representative (Type or Print Name and Title)

Allruck 9-13-06

Sriginal Signature/Date Signed

CDS Associates Inc

08/07/2006 SCIP / MRF

> Blue Ash and Hunt Road Improvements City of Blue Ash Ohio

		Blue Ash and Hunt Road Improvements					300-2008002	1.026
ITEM NO.	SPEC NO.	ITEMIDESCRIPTION	UNIT	UNITPRICE	seriumus (ill	Blue As Qinty	Blue Ash and Hunt Road	Amenda Am
-	201	CLEARING AND GRUBBING, AS PER PLAN	LUMP SUM			 S	30,000,00	0.00
2	202	PIPE REMOVED, 24" AND UNDER	FOOT	\$ 10	10.00 26	2609	26,090.00	0.00
60	202	CATCH BASIN REMOVED	EACH	\$ 250	250.00	13	3,25	3,250.00
4	202	MANHOLE REMOVED	EACH	\$ 800	800.00	6	7,200.00	0.00
5	202	REMOVAL MISC.: PRIVATE SIGN FOOTING	EACH	\$ 500	500.00	S	50	500.00
9	202	REMOVAL MISC.: EX. TRAFFIC SIGN AND POST	EACH	\$ 25	25.00 3	33	82	825.00
		KOADWAY						
7	203	EXCAVATION including pacement removal	CUBIC	\$ 22	22.00 97	9775 \$	215,050.00	0.00
80	203	EMBANKMENT	CUBIC	\$ 12	12.00 84	849 \$	10,188.00	3.00
	5		HAMI IOS					
ח	¥0.4	SUBGRADE COMPACTION WITH GEOTEXTILE / GEOGRID	YARD	\$ 2	2.50 18900	000	47,250.00	00.0
10	*204	PROOF ROLLING	HOUR	\$ 100.00	.00 140	S.	14,000.00	00.0
=	+304	GRANULAR MATERIAL FOR SUBGRADE REPAIR	CUBIC	\$ 45	45.00 700	& Q	31,500.00	0.00
		DRAINAGE/ SANITARY			İ			
12	603	PIPE SIZE DIFFERENCE (36" INSTEAD OF 18" OR 24")	FOOT	9 S	60.00 985	5 \$	59,100.00	00.0
13	603	REPAIR 48" CONDUIT, TYPE A, 707.02	LUMP SUM	\$ 10,000.00	00.	es es	10,000.00	00.0
14	603	12" CONDUIT, TYPE B, CLASS III	FOOT	\$ 60	60.00 2298	- 8e	137,880.00	00.0
15	603	15" CONDUIT, TYPE B, CLASS III	FOOT	\$ 70	70.00 400	9	28,000.00	00.0
16	603	18" CONDUIT, TYPE B, CLASS III	FOOT	\$ 75	75.00 1193	93 \$	89,475.00	90:

^{*} Denotes contingency item, Use only as directed by Engineer

08/07/2006 SCIP / MRF

City of Blue Ash Ohio

CDS Associates Inc

Blue Ash and Hunt Road Improvements

		Blue Ash and Hunt Road Improvements					200000000000000000000000000000000000000
ITEM NO.	spec No.	ITEM DESCRIPTION	UNIT	UNITPRICE	30	e Ash and	Blue Ash and Hunt Road
17	603	24" CONDUIT TYPE B CLASS III		1 1		The state of the s	COS
				\$ 120.00	455	S	54,600.00
18	604	MANHOLE, NO. 3	EACH	\$ 3,500.00	17	S	59,500.00
19	604	CATCH BASIN, NO. 3	EACH	\$ 2,500.00	47	ı,	117 500 00
20	604	CATCH BASIN NO 3A	Ţ				
			EACH	\$ 2,000.00	13	ь	26,000.00
21	604	CATCH BASIN, NO.2-2-A	EACH	\$ 1,500.00	2	es es	3,000.00
22	604	CATCH BASIN, NO.2-2-B	EACH	\$ 1,500.00	6	69	13 500 00
23	605	UNCLASSIFIED PIPE UNDERDRAIN, 707.15 (6")	1001			ŧ	
			5	9.00		A	133,170.00
24	,e03	4"-8" CONDUIT, FOR DRAINAGE CONNECTIONS	FOOT	\$ 12.00	500	69	6,000.00
25	£09	6"-8" CONDUIT TYPE C, 706.01, 706.02, 706.03, WITH JOINTS PER 706.11 OR 706.12	FOOT	\$ 15.00	500	(/)	7.500.00
26	.603	FARM DRAINS / ROOF DRANS	TOO	!		E	
			5	9.00	റ്റ	A	4,000.00
27	SPL	CASING UNDER R.R	FOOT	\$ 400.00	09	မာ	24,000.00
		MAINTENANCE OF TRAFFIC					
28	614	MAINTAINING TRAFFIC		'			
			LUMP SUM	00.000,00 &	-	A	50,000.00
59	619	FIELD OFFICE, TYPE A	LUMP SUM	\$ 10,000.00	-	s,	10,000.00
30	624	MOBILIZATION	LUMP SUM	\$ 40,000.00	-	co.	40,000.00
	!	WATER WORKS (LOCAL)	LUMP SUM	\$125,000.00	+	₩	125,000.00
		SIIBTOTAL				E	7000
		74101000				A	1,384,078.00
						S	130,922.00
		TOTAL OPINION OF CONSTRUCTION COST				\$	1,515,000.00

CDS Associates Inc

Blue Ash and Hunt Road Improvements City of Blue Ash Ohio

SCIP / MRF

08/07/2006

2006003-026 Blue Ash and Hunt Road QNTY COST	
TIEM NO. NO.	

USEFUL LIFE: UPON SATISFACTORY COMPLETION OF THE WORK, THE USEFUL LIFE OF THE BLUE ASH ROAD AND HUNT ROAD IMPROVEMENTS WILL BE 30 YEARS.

ADJUSTMENT UPON DETAILED CONSTRUCTION PLAN COMPLETION, THE ABOVE OPINION OF CONSTRUCTION COST IS SUBJECT TO AND UPON RECEIPT OF BIDS FROM QUALIFIED CONTRACTORS.

Tate Character and the control of th

John L. Eisenmann, P.E., P.S. Ohio Registration #39681

OPWC:2006 MRF:2006003-026 Blue Ash - Blue Ash & Hunt Rd SCI

City of Blue Ash Interoffice Memorandum

TO: Dennis E. Albrinck, Service Director

FROM: David M. Waltz, City Manager

SUBJECT: Ohio Public Works Commission (OPWC) Application for

Financial Assistance Designation of Responsibilities Official

DATE: August 15, 2006

COPIES: James S. Pfeffer, Richard J. Dole, John Eisenmann (CDS)

Associates)

The purpose of this memorandum is to designate Dennis E. Albrinck, Service Director of the City of Blue Ash, as the City official responsible for the submittal of any application, form, agreement, etc. to the Ohio Public Works Commission (OPWC) for financial assistance.

Mr. Albrinck shall have the authority to submit applications to, meet with, and execute agreements with the Ohio Public Works Commissions (OPWC) or the District 2 Public Works Integrating Committee (DPWIC), on behalf of the City of Blue Ash.

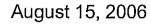
An alternate designation is hereby made in the case of the absence of Mr. Albrinck for Assistant Service Director Richard J. Dole to possess the necessary responsibility to act in this capacity.

David M. Waltz, City Manager



City of Blue Ash 4343 Cooper Road Blue Ash, OH 45242-5699 ph. 513.745.8500 fax 513.745.8594 BlueAsh.com

David M. Waltz City Manager



STATE CAPITAL IMPROVEMENT PROGRAM ROUND 21 CERTIFICATION OF LOCAL FUNDS

STATUS OF FUNDS

THIS IS TO CERTIFY THE CITY OF BLUE ASH WILL REPAY THE LOAN FOR THE BLUE ASH / HUNT ROAD IMPROVEMENT PROJECT FROM THE BLUE ASH / HUNT ROAD IMPROVEMENT PROJECT FUND.

THE CITY OF BLUE ASH HAS APPLIED FOR \$100,000 FROM THE MUNICIPAL ROAD FUND (MRF) WITH THE HAMILTON COUNTY ENGINEER'S OFFICE.

ATTACHED IS A COPY OF THE DECEMBER 31, 2005 COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE CITY OF BLUE ASH.

JAMES S. PFEFFER, TREASURER



ORDINANCE NO. 2006-54

AUTHORIZING THE CITY MANAGER TO SEEK FINANCIAL ASSISTANCE FROM THE STATE CAPITAL IMPROVEMENT PROGRAM (SCIP) FOR FUNDING A CAPITAL INFRASTRUCTURE IMPROVEMENT PROJECT AND RELATED FINANCING COSTS; AND DECLARING AN EMERGENCY

Be it ordained by the Council of the City of Blue Ash, Ohio, not less than five (5) members thereof concurring,

SECTION I.

The City Manager is hereby authorized to apply to the District Two Public Works Integrating Committee of Hamilton County and the Ohio Public Works Commission for financial assistance for the Blue Ash/Hunt Road Improvement Project.

SECTION II.

The City Manager is further authorized to enter into any grant agreements as may be necessary and appropriate for obtaining this financial assistance in conjunction with the recommendations of the City Engineer and the Service Director, and approved as to form by the City Solicitor, in accordance with all authority granted to and limitations upon by the City's Treasurer.

SECTION III.

The City Manager is further authorized to submit as a part of the application for financial assistance for the Blue Ash/Hunt Road Improvement Project an intent to accept a loan or borrowed funds component, providing the potential for borrowing part, or all, of the Project cost at no interest, or very low interest, for a period of up to 30 years.

SECTION IV.

This ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of public peace, health, safety, and welfare of the City of Blue Ash, Ohio; the reason for the emergency being the need to provide the necessary authority for the City to apply for these funds. Therefore, this ordinance shall take effect and be in force from and after its passage.

PASSED this 10th day of August, 2006.

Robert J. Buckman, Jr., Mayor

Jamie K. Eifert, Clerk of Council

APPROVED AS TO FORM:

Mark A. Vander Laan Solicitor

THIS IS A CERTIFIED TRUE AND CORRECT COPY:

Jamie K. Eifert, Clerk of Council

ORDINANCE NO. 93-15

CREATING CHAPTER 172 OF THE BLUE ASH CODE OF ORDINANCES TO PROVIDE FOR THE IMPOSITION OF AN ANNUAL MUNICIPAL MOTOR VEHICLE LICENSE TAX IN ACCORDANCE WITH THE PROVISIONS OF SECTION 4504.171 OF THE OHIO REVISED CODE AND TO PROVIDE FOR THE COLLECTION OF SAID TAX BY THE REGISTRAR OF MOTOR VEHICLES OF THE STATE OF OHIO OR DEPUTY REGISTRARS AT THE TIME APPLICATIONS FOR REGISTRATION OF MOTOR VEHICLES ARE REQUIRED UNDER THE OHIO REVISED CODE

WHEREAS, various provisions of the Ohio Revised Code provide for the levy of a Municipal Motor Vehicle License Tax by the legislative authority of a municipal corporation; and

WHEREAS, the provisions of Section 4504.171 of the Revised Code authorize municipal corporations to adopt a Municipal Motor Vehicle License Tax which would be in addition to other permissive Motor Vehicle License Taxes levied by counties or municipal corporations; and

WHEREAS, the City of Blue Ash is desirous of levying this permissive Municipal Motor Vehicle License Tax to obtain additional revenues to be used generally, and as more specifically provided here and in the Revised Code, to improve the streets of the City.

Be it ordained by the Council of the City of Blue Ash, Ohio,

SECTION I.

That Chapter 172 of Title IV of the Codified Ordinances of the City of Blue Ash, Ohio is hereby adopted, creating Chapter 172, Municipal Motor Vehicle License Tax, which shall read as follows:

Section 172.01 Levy of Annual Tax.

There is hereby levied an annual permissive motor vehicle license tax upon the operation of motor vehicles upon the public roads or highways of the City of Blue Ash. Such tax shall be at the rate of \$5.00 per motor vehicle on all motor vehicles the district of registration of which, as defined in Section 4503.10 of the Revised Code, is in the City of Blue Ash. This tax shall be in addition to the taxes at the rates specified in Sections 4503.04 and 4503.16 of the Ohio Revised Code. This tax is to supplement revenues already available under Ohio Revised Code Sections 4504.04, 4504.06, 4504.17, and 4504.172. This tax is levied under the authority of Section 4504.171 of the Ohio Revised Code.

As used in this chapter the term "motor vehicles" means any and all vehicles included within the definition of motor vehicles in Section 4501.01 and 4505.01 of the Ohio Revised Code and includes motorized bicycles.

Section 172.02 Use of Tax Levy Proceeds.

The proceeds of the tax levied under Section 172.01 are for the purpose of paying the costs and expenses of enforcing and administering the tax provided for in Section 172.01 and for planning, constructing, reconstructing, improving, maintaining and repairing public roads, highways and streets; maintaining and repairing bridges and viaducts; paying the City's portion of the costs and expenses of cooperating with the Department of Transportation in the planning,

improvement and construction of State highways; paying the City's portion of the compensation, damages, costs and expenses of planning, constructing, reconstructing, improving, maintaining and repairing roads and streets; paying any costs apportioned to the City under Section 4907.47 of the Ohio Revised Code; paying debt service charges on notes or bonds of the City issued for such purposes; purchasing, erecting and maintaining street and traffic signs and markers; purchasing, erecting and maintaining traffic lights and signals; and to supplement revenue already available for such purposes, provided that any use of such tax proceeds shall be in accord with the purposes set forth in Sections 4504.04, 4504.06, 4504.17 and 4504.171 of the Ohio Revised Code.

The municipal motor vehicle license tax levied under Section 172.01 shall be imposed from and after the earliest date permitted by law and continue in effect until repealed by ordinance.

Section 172.03. Payment of the Tax.

The tax imposed by Section 172.01 shall be paid to the Registrar of Motor Vehicles of the State of Ohio or to a Deputy Registrar at the time application for the registration of a motor vehicle is made as provided in Section 4503.10 of the Ohio Revised Code.

Section 172.04. Reductions and Exemptions of the Tax.

The tax imposed by Section 172.01 shall be subject to reductions in the manner provided in Section 4503.11 of the Ohio Revised Code and to the exemptions provided in Sections 4503.16, 4503.17, 4503.171, 4503.41 and 4503.43 of the Ohio Revised Code.

Section 172.05. Severability

If any portion or section of this chapter shall be declared invalid or unlawful for any reason, such portion or section shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remaining portions thereof.

SECTION II.

That the amounts received from the tax levied under the provisions of this ordinance shall be deposited into the Street Construction, Maintenance and Repair Fund or other appropriate fund to be used for the purposes identified in Section 172.02 as appropriate.

SECTION III.

That the Clerk of Council and the City Manager shall do all things necessary to carry out and enforce this ordinance, including certifying this ordinance to the appropriate State officials within the time provided by law.

Ordinance No. 93-15 Page 3

SECTION IV.

That the Treasurer and Finance Officer shall deposit the receipts from the tax levied hereunder and the City Manager shall be authorized to make expenditures from the receipts in accordance with the lawful purposes set forth in Section I hereof.

SECTION V.

That this ordinance shall be in force and take effect from and after the earliest period allowed by law.

PASSED this 2nd day of February, 1993.

Walter L. Reuszer/Mayor

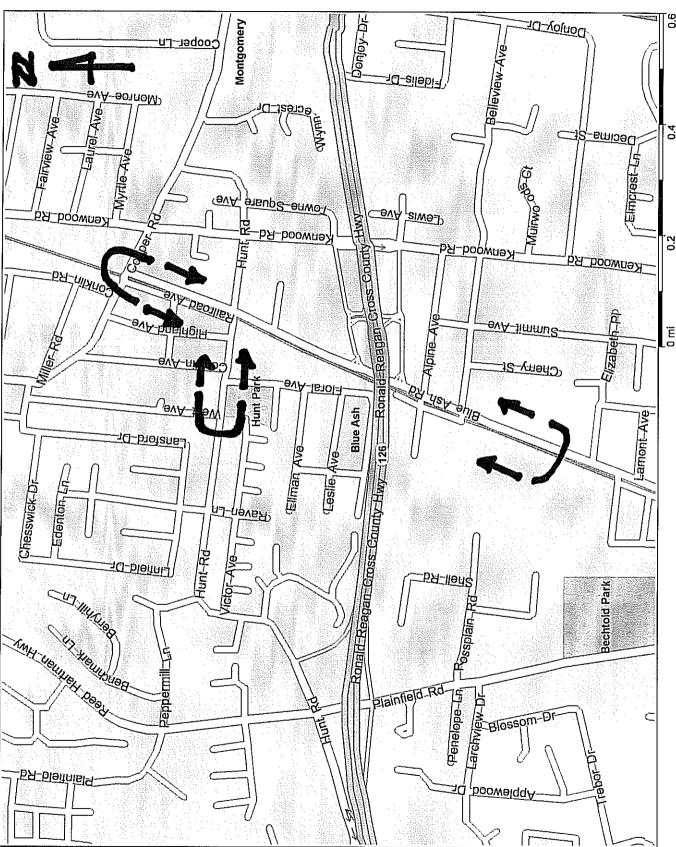
Mary E. Malone, Clerk of Council

APPROVED AS TO FORM:

Mark A. Vander Laan, Solicitor

THIS IS A CERTIFIED TRUE AND CORRECT COPY:

Mary E. Malone, Clerk of Council



VICINITY MAP

BLUE ASH RD.

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HAMILTON COUNTY ENGINEER'S OFFICE PROJECT APPLICATION - MUNICIPAL ROAD FUND - 2007

	Engineer, or a Registered Engineer of the Municipality's choosing shall prepare the application cost estimate. Submit by 4:00 p.m., September 1, 2006.
(1)	Municipality City of Blue Ash
(2)	Road Name Blue Ash and Hunt Road Improvements
(3)	
(4)	Project Priority (1)
(5)	Present Roadway Data: (Answer all that apply)
	(a) Paul Width 301 (1) Carren
	(d) Type Surface Asphalt (e) Type Base Concrete/Asphalt (f) Shidr. Type Untreated (Hunt Road)
	(g) Shidr. Width N/A (h) Year Last Popurfound District Association (c) Shidr. Type Untreated (Hunt Road)
	(g) Shldr. Wldth N/A (h) Year Last Resurfaced Prior to 1988, (Blue Ash), 2004 (Hunt)
(6)	Present condition of project area: List deficiencies and reasons for improvement.
	Blue Ash Road is a 31' back to back concrete pavement with integral curbs and an asphalt surface overlay that has exceeded its service life. Pavement cores are evidence that the concrete has failed and will no longer support the bus and vehicular traffic loads. The geotechnical report recommends total pavement replacement or rubbelization. Hunt Road has been impacted by localized drainage problems. The entire storm sewer system is substandard as evidenced by video records.
(7)	Project description or statement of work to be done: Include width and type of new pavement and other project particulars.
40.00.00.00.00.00.00.00.00.00.00.00.00.0	The improvements to Blue Ash Road will consist of replacement of the storm sewer system, 31 back to back full depth asphalt pavement with type 2 curb and gutter, sidewalks, new pavement markings, and signs. A northbound right turn lane will be provided on Blue Ash at Cooper Road. Hunt Road will be improved by adding Type 2 curb and gutter to the 24! pavement, providing a storm sewer system, mill and resurface the existing pavement, provide new pavement markings and signs.
(8)	Traffic Data: (a) Present Volume 10,184 (b) Date of Count 8/20/02
(9)	Cost Estimate:
	When engineering plans are necessary, list the following costs:
	(a) Preparation of preliminary plans & estimates, etc. \$ Complete
	(b) Preparation of final plans & estimates, etc. \$ 160,000.00
	(c) Construction Cost Estimate \$ 3,030,000.00
	(d) Other Costs (Specify) S N/A
	TOTAL AMOUNT OF MRF FUNDS APPLIED FOR = \$ 100,000.00
(10)	Estimated date construction can be started after approvalJanuary 14, 2008
(11)	Estimated date construction can be started if not funded 100% from MRF <u>Unknown</u> .
(12)	Are the MRF funds to be used as matching funds for SCIP / LTIP2 Voc.
	If yes, what percentage of the project cost?3%
(13)	Cost Estimate Prepared By: CDS Associates, Inc. Date: 8/26/06
(14)	Application Prepared By: Menny Clerick Date: 8/26/06 (Signature)
1	

Make copies of this form as needed

City of Blue Ash Interoffice Memorandum

TO:

John Eisenmann, City Engineer

FROM:

Dennis E. Albrinck, Service Director

SUBJECT:

Water Hydrant Flow Testing Data - Blue Ash Road

DATE:

August 26, 2005

COPIES:

Rich Dole

Last year (2004), Lt. Ed Jansing made available to me the records the Fire Department had for hydrant flows on Blue Ash Road. As you can see from the chart, the gallons per minute (GPM's) ranged from a low of 651 to a high of 905. The Fire Department would like to see flows in the 1000-1500 GPM's on a hydrant.

09323 BLUE ASH 09279 BLUE ASH 09111 BLUE ASH 09001 BLUE ASH
09419 BLUE ASH 09323 BLUE ASH 09221 BLUE ASH 09211 BLUE ASH 09011 BLUE ASH

TRAFFIC CERTIFICATION STATEMENT

This is to certify that the attached documentation regarding 24-hour traffic volume has been obtained by a hose count taken at the location and date noted on the traffic count printout.



John J. Risemann, P.E., P.S.

City Engineer

Weather : Counted by: Twill Board # :01317 Other : CDS Associates, Inc. 11120 Renvoci Rd. Cincinnati, Obio 45243

Site Code : 000000001093 Start Date: 08/20/2002 File I.D. : E:\TRAFFIC\TA Page : 2

Street same Bejin Time 12:10 12:15 12:45 01:00 01:15 01:45 02:45 02:45 02:45	08/21 08/21 N3 8 12 16 10 5 3 6 5	SE RD Wed.	2:058 A.M- SB 13 15 3 4	. 36	Total 21 . 28 . 19	>	· 08/21 NS 70 . 69	Wed.	9.M. SB 91		Corrine Toral 141	>		
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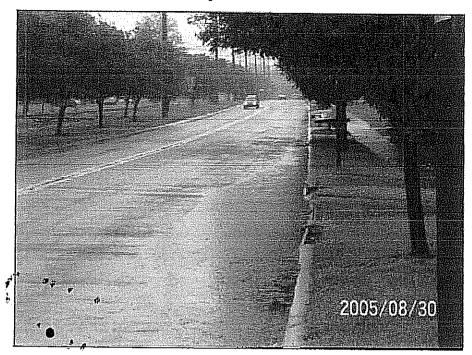
CDS Associatas, Toc. 11120 Kamwood Rii Cincippati, Chic 45242

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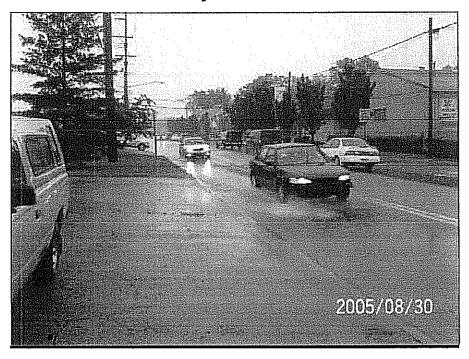
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Agency/Co.	Blue Ash		Jurisd	iction		City of Blue Ash			
Date Performed	8/25/2005		Analysis Year			2004			
Analysis Time Period	PM peak								
Project Description 2003	3125 existing ged	ometry							
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ntersection Orientation:	East-West	-	Study	Period (hrs): <i>0.2</i> 5				
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Date Performed	8/25/2005		sis Year		2004					
Analysis Time Period	PM peak		0.0 1001		2004					
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Volume (veh/h)	0	402	170		155	341		0		
Peak-hour factor, PHF	1.00	0.87	0.8		0.91	0.91		1.00		
Hourly Flow Rate (veh/h)	0	462	19:	<u></u>	170	374		0		
Proportion of heavy								 		
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Minor Street						Southbound				
Movement	7	Northbound 8	9		10	1 11	unu	12		
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Volume (veh/h)	46	0	99		0	0		0		
Peak-hour factor, PHF	0.79	1.00	0.79		1.00	1.00		1.00		
lourly Flow Rate (veh/h)	58	0	125		0	0		0		
Proportion of heavy			1,20					·		
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Blue Ash Road north of Ronald Reagan Hwy. Two inlets not taking the water.





Blue Ash Road south of Ronald Reagan Hwy. Water in the traveled lanes of traffic due to inadequate drainage.



Blue Ash Road north of Ronald Reagan Hwy. Water backing up in the curb due to the inlets not taking the water.



Blue Ash Road south of Cooper.

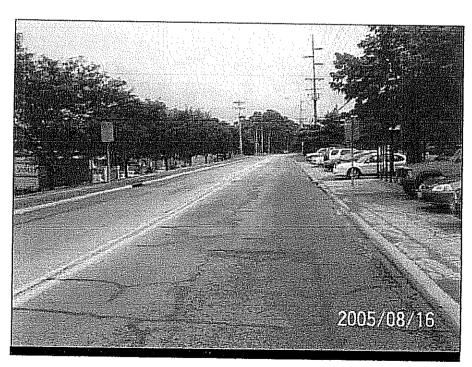
The water can't stay within the curb due to inadequate stormwater collection system.



Blue Ash Road south of Cooper. Lack of stormwater inlets cause the curbs to over flow.



Blue Ash Road north of Ronald Reagan Hwy. Pot holes and raveling with severe alligator cracking.



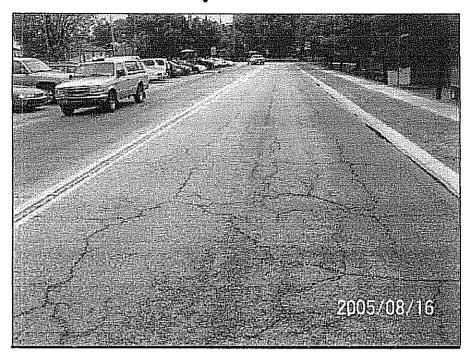
Blue Ash Road south of Cooper Road. Deficient crack seal, random cracking. Reflective transverse joint and alligator cracking.



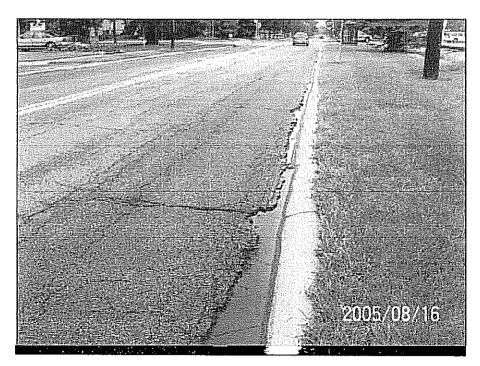
Blue Ash Road south of Hunt Road. Roadway patch. Notice random cracking and rutting.



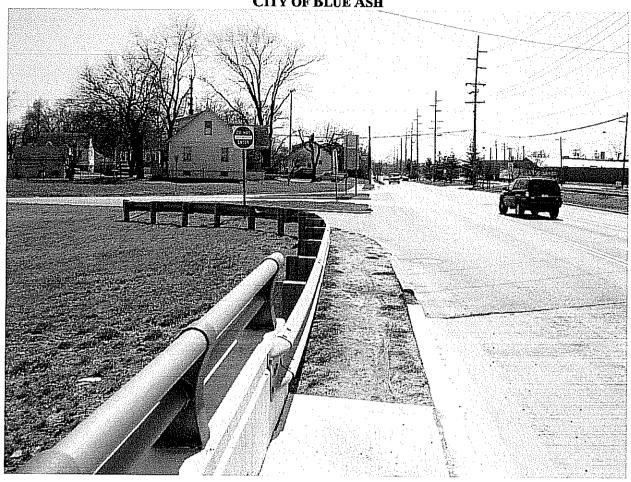
Blue Ash Road at Tillsam Ct. Alligator cracking with raveling, and pot holes.



Blue Ash Road south of Cooper. Alligator cracking with evidence of base failure.



Blue Ash Road North of Hunt Road. Alligator cracking with concrete gutter paved over.

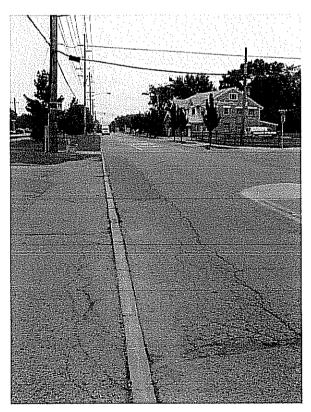


Blue Ash Road looking south from Ronald Reagan Hwy Bridge.
Project to extend sidewalk through interchange area



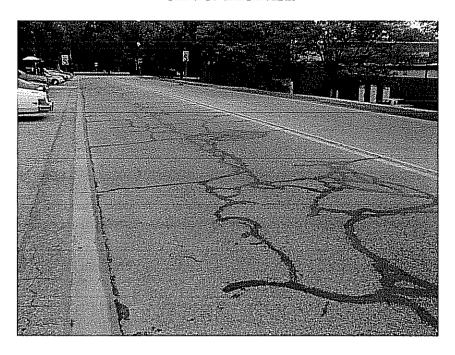
Blue Ash Road south of Hunt Road.

Roadway patching at utility manhole. Random cracking may be caused by a shattered concrete slab.



Blue Ash Road south of Ronald Reagan Hwy.

Longitudinal cracking with minor raveling. Roadway patching in background.



Blue Ash Road south of Cooper Road.

Deficient crack seal, random cracking. Reflective transverse reflection joint cracking. Notice the concrete gutter is paved over.



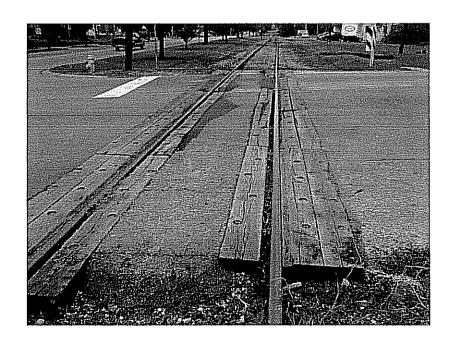
Blue Ash Road south of Hunt Road.

Roadway patch. Notice random cracking and minor rutting.



Blue Ash Road south of Ronald Reagan Hwy.

Longitudinal cracking with extensive roadway patching deficient crack seal. Pothole in background.



Railroad track crossing at Hunt Road.



Hunt Road west of Highland Ave. Substandard yard inlet

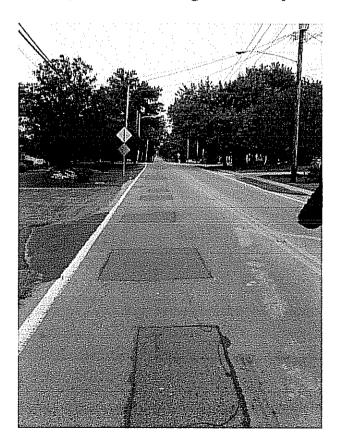


Hunt Road east of Flora Ave.

Inlet in driveway, notice the "curbing" on driveway to direct water to catch basin instead of traveling down driveway to house.



Hunt Road east of Flora Ave. (Picture taken before asphalt overlay)
Yard inlet; notice the "curbing" on driveway to inlet.



Hunt Road east of Flora Ave. (Picture taken before asphalt overlay)
Roadway patching due to utility cuts.



Planning and Scheduling Department

September 8, 2006

Mr. Greg Bell CDS Associates, Inc. 11120 Kenwood Road Cincinnati, Ohio 45242

Dear Mr. Bell:

The Southwest Ohio Regional Transit Authority (SORTA), more commonly known as The Metro, operates fixed route public transit service on five of the nine street segments listed in the letter that you sent to me. These road segments that are served by Metro are as follows:

On Harrison Avenue between Lovell and the Cheviot east corporation line
This road segment is served by Metro Route 21, Harrison Avenue and by Metro Route 40X, Montana Express. The combined estimated daily ridership on weekdays for these two routes is 3,300 passengers. We estimate that about 300 passengers per day travel through this specific street segment on Metro service.

On Blue Ash Road between Cooper Road and the Blue Ash south corporation line

This road segment is served by Metro Route 3X, Montgomery Express and Metro Route 3, Montgomery Job Connection. The combined estimated daily ridership on weekdays for these two routes is 500 passengers. We estimate that about 100 passengers per day travel through this specific street segment on Metro service.

The intersection of Plainfield Road and Montgomery Road

This road segment is served by Metro Route 3, Montgomery Job Connection, Metro Route 4, Blue Ash and Metro Route 4 Kenwood. The combined estimated daily ridership on weekdays for these routes is 7,100 passengers. We estimate that about 800 passengers per day travel through this intersection on Metro service.

Metro is a non-profit public service of Southwest Ohio Regional Transit Authority Greg Bell Letter September 8, 2006 Page 2 of 2

On Main Street in Addyston between First Street and Lawland Road

This road segment is served by Metro Route 50, Saylor Park. The estimated daily ridership on weekdays for Route 50 is 1,200 passengers. We estimate that about 20 passengers per day travel through this street segment on Metro service.

On Anthony Wayne Avenue between Marion Road and the Woodlawn south corporation line

This road segment is served by Metro Route 78, Woodlawn. The estimated daily ridership on weekdays for Route 78 is 3,800 passengers. We estimate that about 50 passengers per day travel through this street segment on Metro service.

Thanks for your interest in Metro service. If I can be of any further assistance, please let me know. Additional information about all Metro service is available at www.go-metro.com.

Sincerely,

Ted C. Meyer

Manager of Planning & Scheduling

- C/12

ADDITIONAL SUPPORT INFORMATION

For Program Year 2006 (July 1, 2006 through June 30, 2007), jurisdictions shall provide the following support information to help determine which projects will be funded. Information on this form must be accurate, and where called for, based on sound engineering principles. Documentation to substantiate the individual items, as noted, is required. The applicant shall also use the rating system and its' addendum as a guide. The examples listed in this addendum are not a complete list, but only a small sampling of situations that may be relevant to a given project.

IF YOU ARE APPLYING FOR A GRANT, WILL YOU BE WILLING TO ACCEPT A LOAN IF ASKED BY THE DISTRICT? X YES NO (ANSWER REQUIRED)

Note: Answering "Yes" will not increase your score and answering "NO" will not decrease your score.

1) What is the condition of the existing infrastructure that is to be replaced or repaired?

Give a brief statement of the deficient conditions of the present facility exclusive of capacity, serviceability, health and/or safety issues. If known, give the approximate age of the infrastructure to be replaced, repaired, or expanded. Use documentation (if possible) to support your statement. Documentation may include (but is not limited to): ODOT BR86 reports, pavement management condition reports, televised underground system reports, age inventory reports, maintenance records, etc., and will only be considered if included in the original application. Examples of deficiencies include: structural condition: substandard design elements such as widths, grades, curves, sight distances, drainage structures, etc.

The condition of Blue Ash Road has failed. The geotechnical report show the concrete base to be severely fractured and recommends replacement or rubbelization (see attached). Portions of Hunt Road and Blue Ash Road were temporarily patched or resurfaced in 2004. These repairs were done to provide a "band-aid" until more extensive rehabilitation / replacement work can be done. The existing storm sewer along Blue Ash Road services the residential area (85 AC) north of Hunt Road and west of Blue Ash Road. This system is deteriorated and undersized and no longer effectively serving in the area. In addition, the local system is a myriad of storm inlets and pipes that are placed randomly and not effective for the drainage patterns. Video logs have been provided to document the deteriorated storm sewer condition (see attached). The entire storm sewer system requires replacement.

2) How important is the project to the safety of the Public and the citizens of the District and/or service area?

Give a statement of the projects effect on the safety of the service area. The design of the project is intended to reduce existing accident rate, promote safer conditions, and reduce the danger of risk, liability or injury. (Typical examples may include the effects of the completed project on accident rates, emergency response time, fire protection, and highway capacity). Please be specific and provide documentation if necessary to substantiate the data. The applicant must demonstrate the type of problems that exist, the frequency and severity of the problems and the method of correction.

As part of the project, new signage and stripping will be installed per MUTCD guidelines. The project will provide a safer roadway due to the elimination of surface irregularities. Restoring curb and gutter capacity and inlet spacing will provide better drainage and safer pavement. There currently is above average rates of failure, to yield type accidents at Blue Ash Road and Hunt Road intersections. The signage improvements to the Blue Ash Road and Hunt Road railroad track intersection should help reduce accident occurrence in the area (see attached Accident Analysis Report). Greater Cincinnati Water Works will install a 36" watermain to improve pressure, service, and fire protection in 2007.

3) How important is the project to the health of the Public and the citizens of the District and/or service area?

Give a statement of the projects effect on the health of the service area. The design of the project will improve the overall condition of the facility so as to reduce or eliminate potential for disease, or correct concerns regarding the environmental health of the area. (Typical examples may include the effects of the completed project by improving or adding storm drainage or sanitary facilities, replacing lead jointed water lines, etc.). Please be specific and provide documentation if necessary to substantiate the data. The applicant must demonstrate the type of problems that exist, the frequency and severity of the problems and the method of correction.

The improvements to the local drainage system will reduce isolated water ponding in yards. Basement flooding along Hunt Road will be reduced by providing a properly engineered stormwater collection and conveyance system in the public right-of-way.

4) Does the project help meet the infrastructure repair and replacement needs of the applying jurisdiction?
The jurisdiction must submit a listing in priority order of the projects for which it is applying. Points will be awarded on the basis of most to least importance.
Priority 1 Blue Ash Road and Hunt Road Improvements Priority 2
Priority 3Priority 4
Priority 5
5) To what extent will the user fee funded agency be participating in the funding of the project? (example: rates for water or sewer, frontage assessments, etc.).
None
6) Economic Growth - How will the completed project enhance economic growth? Give a statement of the projects effect on the economic growth of the service area (be specific).
The improvements to Blue Ash Road will help sustain economic viability for existing businesses located along the corridor. The City's downtown revitalization plan calls for invigorating residential / retail areas adjacent to the downtown area. The roadway and storm sewer improvements will support potential redevelopment along the Blue Ash corridor north of Ronald Reagan Highway.
7) Matching Funds - <u>LOCAL</u>
The information regarding local matching funds is to be filed by the applicant in Section 1.2 (b) of the Ohio Public Works Association's "Application for Financial Assistance" form.
8) Matching Funds - <u>OTHER</u>
The information regarding local matching funds is to be filed by the applicant in Section 1.2 (c) of the Ohio Public Works Association's "Application for Financial Assistance" form. If MRF funds are being used for matching funds, the MRF application must be filed by August 31 st of this year for this project with the Hamilton County Engineer's Office. List below, the source(s) of all "other" funding
MRF funding - 3%
Greater Cincinnati Water Works (GCWW) - 1%

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oday's P	M pea	k traff	ic volu	
N/A				
S "C" ca	annot b	e achie	eved.	
ruction	ı conti	ract b	e awar	ded?
roject b	e unde	r conti	act? T	he Support Staff will
Yes_	х	_ No_		N/A
Yes_	x (60%	<u>6)</u> No_		N/A
Yes_		No_	x	N/A
Yes		No_	х	_ N/A
ese, hov	v man	-	Cempor	ent 4
W acqı	uisitio	ı proc	ess for	this project.
oction e 30, 200	aseme)7.	nt nee	ds will	be determined. If
	d Blue And Doday's Poday's Poday's Poday's Poday's Poday's Poday's Poday's And Poday's Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday Poday 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Poday Poday Poday Poday Poday Poday Poday Poday Pod	d Blue Ash Rooday's PM peadoday's and Street N/A S "C" cannot be cet Agreement of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a jurisdiction of a 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jurisdiction of a juris	cevel of Service (LOS ways and Streets" and N/A S "C" cannot be achieved Agreement from Oroject be under control a jurisdiction's anticory and yes x (60%) No Yes No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No 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Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Ye	d Blue Ash Road to eastbour oday's PM peak traffic volumeday's PM peak traffic volumeday and Streets" and the 198 N/A S "C" cannot be achieved. S "C" cannot be achieved. Tof a jurisdiction's anticipated period a jurisdiction's anticipated period a jurisdiction's anticipated period a jurisdiction's anticipated period a jurisdiction's anticipated period a jurisdiction's anticipated period a jurisdiction's anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a jurisdiction anticipated period a juri

9) Will the project alleviate serious capacity problems or respond to the future level of service needs of

e.) Give an estimate of time needed to complete any item above not yet completed. _______11

11) Does the infrastructure Give a brief statement concerni			astructure to l	be replaced, repair	red, or expanded.
Blue Ash Road is an important Ronald Reagan Highway. In a Road just south of Cooper Road	addition, a Queen City				
12) What is the overall econ	omic health of the j	jurisdiction?			
The District 2 Integrating Co of a jurisdiction may periodic	-	•			
13) Has any formal action complete ban of the usa					in a partial or
Describe what formal action involved infrastructure? Tylimitations on issuance of burproblem to be considered value.	ypical examples inciliding permits, etc.	lude weigh li The ban must l	mits, truck nave been car	restrictions, and used by a structu	moratoriums or ral or operational
N/A					
Will the ban be removed after	r the project is comp	leted?	Yes	No	N/Ax
14) What is the total number	r of existing daily u	sers that will	benefit as a	result of the pro	posed project?
For roads and bridges, multip submit documentation substa closed, use documented traff and other related facilities, m be documented and certified by	ntiating the count. Vice counts prior to the ultiply the number of	Where the facil e restriction. I f households in	ity currently For storm sev the service	has any restriction wers, sanitary sevarea by 4. User	ons or is partially wers, water lines,
Traffic:	ADT <u>10,</u>	<u>184</u> x 1	.20 = 12	2,220 Users	
Public Transit Ridership: Water / Sewer:	Homes	<u>260</u> x 4	=	100 Users 1,040 Users	
15) Has the jurisdiction ena dedicated tax for the per	cted the optional \$5 tinent infrastructu	5.00 license pla re?	nte fee, an in	ifrastructure lev	vy, a user fee, or
The applying jurisdiction sha infrastructure being applied for			taxes they h	ave dedicated to	ward the type of
Operational \$5.00 License Ta Infrastructure Levy	x <u>YES</u>	-		Motor Vehicle	

_____ Specify type _____

_____ Specify type_____

_____ Specify type _____

Facility Users Fee

Other Fee, Levy or Tax

Dedicated Tax

SCIP/LTIP PROGRAM ROUND 21 - PROGRAM YEAR 2007 PROJECT SELECTION CRITERIA JULY 1, 2007 TO JUNE 30, 2008

NAME OF APPLICANT:	Blue Ash
NAME OF PROJECT: Blue Ash Rd	t Hunt Rd Improvements
RATING TEAM:	

General Statement for Rating Criteria

Points awarded for all items will be based on engineering experience, field verification, application information and other information supplied by the applying agency, which is deemed to be relevant by the Support Staff. The examples listed in this addendum are not a complete list, but only a small sampling of situations that may be relevant to a given project.

Hunt Rd = 0 Hunt pipe = 20 BlueAsh (copper to Regan) = 15 Blue Ash (cheagan to coep line) = 20

CIRCLE THE APPROPRIATE RATING

What is the physical condition of the existing infrastructure that is to be replaced or repaired?

25 - Failed

1)

23 - Critical

20 - Very Poor

17 - Poor

15 - Moderately Poor

10 - Moderately Fair

5 - Fair Condition

0 - Good or Better

Appeal Score

Criterion 1 - Condition

Condition of the particular infrastructure to be repaired, reconstructed or replaced shall be a measure of the degree of reduction in condition from its original state. Capacity, serviceability, safety and health shall not be considered in this criterion. Any documentation the Applicant wishes to be considered must be included in the application package.

Definitions:

Failed Condition – requires complete reconstruction where no part of the existing facility is salvageable. (E.g. Roads: complete reconstruction of roadway, curbs and base; Bridges: complete removal and replacement of bridge; Underground: removal and replacement of an underground drainage or water system.

Critical Condition - requires partial reconstruction to maintain integrity. (E.g. Roads: reconstruction of roadway/curbs can be saved; Bridges: removal and replacement of bridge with abutment modification; Underground: removal and replacement of part of an underground drainage or water system.

<u>Very Poor Condition</u> - requires extensive rehabilitation to maintain integrity. (E.g. Roads: extensive full depth, partial depth and curb repair of a roadway with a structural overlay; Bridges: superstructure replacement; Underground: repair of joints and/or replacement of pipe sections.

<u>Poor Condition</u> - requires standard rehabilitation to maintain integrity. (E.g. Roads: moderate full depth, partial depth and curb repair to a roadway with no structural overlay needed or structural overlay with minor repairs to a roadway needed; Bridges: extensive patching of substructure and replacement of deck; Underground: insituform or other in ground repairs.

-Moderately Poor Condition - requires minor rehabilitation to maintain integrity. (E.g. Roads: minor full depth, partial depth or curb repairs to a roadway with either a thin overlay or no overlay needed; Bridges: major structural patching and/or major deck repair.

Moderately Fair Condition - requires extensive maintenance to maintain integrity. (E.g. Roads: thin or no overlay with extensive crack sealing, minor partial depth and/or slurry or rejuvenation; Bridges: minor structural patching, deck repair, erosion control.)

Fair Condition - requires routine maintenance to maintain integrity. (E.g. Roads: slurry seal, rejuvenation or routine crack sealing to the roadway; Bridges: minor structural patching.)

Good or Better Condition - little to no maintenance required to maintain integrity.

Note: If the infrastructure is in "good" or better condition, it will NOT be considered for SCIP/LTIP funding unless it is an expansion project that will improve serviceability.

-1-

.2)	How important is the project to the safety of the Public and the citizens of the District and/or service area?										
	25 - Highly significant importance 20 - Considerably significant importance 15 - Moderate importance 10 - Minimal importance 5 - Poorly documented importance 0 - No measurable impact	Appeal Score									
	Criterion 2 – Safety The applying agency shall include in its application the type, frequency, and severity of the safety problem how the intended project would improve the situation. For example, have there been vehicular accident cited? Have they involved injuries or fatalities? In the case of water systems, are existing hydrants nowater lines, is the present capacity inadequate to provide volumes or pressure for adequate fire protect documentation is required. Mentioned problems, which are poorly documented, shall not receive more	s attributable to the problems on-functional? In the case of									
	Note: Each project is looked at on an individual basis to determine if any aspects of this category ap are NOT intended to be exclusive.	ply. Examples given above									
3)	How important is the project to the <u>health</u> of the Public and the citizens of the District and/or service	e area?									
	25 - Highly significant importance 20 - Considerably significant importance 15 - Moderate importance 10 - Minimal importance (5-Poorly documented importance 0 No measurable impact	Appeal Score									
	Criterion 3 – Health The applying agency shall include in its application the type, frequency, and severity of the health proble or reduced by the intended project. For example, can the problem be eliminated only by the project, or we satisfactory? If basement flooding has occurred, was it storm water or sanitary flow? What complaints case of underground improvements, how will they improve health if they are storm sewers? How would improve health or reduce health risk? In all cases, quantified documentation is required. Mentioned documented, shall not receive more than 5 points.	ould routine maintenance be if any are recorded? In the									
	Note: Each project is looked at on an individual basis to determine if any aspects of this category apply. are NOT intended to be exclusive.	Examples given above									
4)	Does the project help meet the infrastructure repair and replacement needs of the applying agency? Note: Applying agency's priority listing (part of the Additional Support Information) must be filed with applica	tion(s).									
	25 - First priority project 20 - Second priority project 15 -Third priority project 10 - Fourth priority project 5 - Fifth priority project or lower	Appeal Score									
	Criterion 4 – Jurisdiction's Priority Listing The applying agency <u>must</u> submit a listing in priority order of the projects for which it is applying. Points basis of most to least importance. The form is included in the Additional Support Information.	will be awarded on the									

To what extent will a user fee funded agency be participating in Less than 10%	in the funding of the project?
9 – 10% to 19.99%	
8 – 20% to 29.99%	A
7 – 30% to 39.99%	Appeal Score
6 – 40% to 49,99%	
5 – 50% to 59.99%	
4 – 60% to 69.99%	
3 – 70% to 79.99%	
2 – 80% to 89,99%	
1 – 90% to 95%	
0 – Above 95%	
Criterion 5 – User Fee-funded Agency Participation	
To what extent will a user fee funded agency be participating in the fund	ing of the project? (Example: rates for water or sewer
frontage assessments, etc.). The applying agency must submit document	ation.
Economic Growth – How the completed project will enhance econom	nic growth (See definitions).
10 - The project will directly secure new employment	Appeal Score
5 – The project will permit more development	•••
10 The project will not impact development	

Criterion 6 - Economic Growth

Will the completed project enhance economic growth and/or development in the service area?

Definitions:

5)

6)

Secure new employment: The project as designed will secure development/employers, which will immediately add new permanent employees to the jurisdiction. The applying agency must submit details.

Permit more development: The project as designed will permit additional business development/employment. The applying agency must supply details.

The project will not impact development: The project will have no impact on business development.

Note: Each project is looked at on an individual basis to determine if any aspects of this category apply.

Matching Funds - LOCAL

10 - This project is a loan or credit enhancement

(10) 50% or higher

8 – 40% to 49.99%

List total percentage of "Local" funds 53 %

6-30% to 39.99%

4 - 20% to 29.99%

2-10% to 19.99%

0 - Less than 10%

Criterion 7 - Matching Funds - Local

The percentage of matching funds which come directly from the budget of the applying agency. Ten points shall be awarded if a loan request is at least 50% of the total project cost. (If the applying agency is not a user fee funded agency, any funds to be provided by a user fee generating agency will be considered "Matching Funds — Other")

Matching Funds – <u>OTHER</u>	List total percentage of "Other" funds 3.3
10 – 50% or higher	List below each funding source and percentage
8 – 40% to 49.99%	MRF 3.3 %
6-30% to 39.99%	%
4 – 20% to 29.99%	%
2 – 10% to 19.99%	
(1-)1% to 9.99%	%
0 - Less than 1%	

Criterion 8 - Matching Funds - Other

Matching Funds - OTHER

The percentage of matching funds that come from funding sources other than those mentioned in Criterion 7. A letter from the outside funding agency stating their financial participation in the project and the amount of funding is required to receive points. For MRF, a copy of the current application form filed with the Hamilton County Engineer's Office meets the requirement.

9) Will the project alleviate serious capacity problems or hazards or respond to the future level of service needs of the district?

10 - Project design is for future demand.	Appeal Score
8 - Project design is for partial future demand.	Appear Bette
6 - Project design is for current demand.	
4-Project design is for minimal increase in capacity.	

2 - Project design is for no increase in capacity.

Criterion 9 – Alleviate Capacity Problems

The applying agency shall provide a narrative, along with pertinent support documentation, which describe the existing deficiencies and showing how congestion will be reduced or eliminated and how service will be improved to meet the needs of any expected growth or development. A formal capacity analysis accompanying the application would be beneficial. Projected traffic or demand should be calculated as follows:

Formula:

8)

Existing users x design year factor = projected users

<u>Design Year</u>	Design year factor									
	<u>Urban</u>		Suburban	Rural						
20	1.40		1.70	1.60						
10	1.20		1.35	1.30						

Definitions:

Enture demand - Project will eliminate existing congestion or deficiencies and will provide sufficient capacity or service for twentyyear projected demand or fully developed area conditions. Justification must be supplied if the area is already largely developed or undevelopable and thus the projection factors used deviate from the above table.

Partial future demand - Project will eliminate existing congestion or deficiencies and will provide sufficient capacity or service for ten-year projected demand or partially developed area conditions. Justification must be supplied if the area is already largely developed or undevelopable and thus the projection factors used deviate from the above table.

Current demand - Project will eliminate existing congestion or deficiencies and will provide sufficient capacity or service only for existing demand and conditions.

Minimal increase - Project will reduce but not eliminate existing congestion or deficiencies and will provide a minimal but less than sufficient increase in existing capacity or service for existing demand and conditions.

No increase - Project will have no effect on existing congestion or deficiencies and provide no increase in capacity or service for existing demand and conditions.

10) Readiness to Proceed - If SCIP/LTIP funds are granted, when would the construction contract be awarded?

(5) Will be under contract by December 31, 2007 and no delinquent projects in Rounds 18 & 19

3 - Will be under contract by March 31, 2008 and/or one delinquent project in Rounds 18 & 19

0 - Will not be under contract by March 31, 2008 and/or more than one delinquent project in Rounds 18 & 19

Criterion 10 - Readiness to Proceed

The Support Staff will assign points based on engineering experience and status of design plans. A project is considered delinquent when it has not received a notice to proceed within the time stated on the original application and no time extension has been granted by the OPWC. An applying agency receiving approval for a project and subsequently canceling the same after the bid date on the application will receive zero (0) points under this round and the following round.

Does the infrastructure have regional impact? Consider origination and destination of traffic, functional classifications, size of service area, and number of jurisdictions served, etc.

10 – Major Impact	
8 – Significant Impact	
Moderate Impact	
(4)Minor Impact	
2 – Minimal or No Impact	

Appeal Score

Criterion 11 - Regional Impact

The regional significance of the infrastructure that is being repaired or replaced.

Definitions:

Major Impact – Roads: Major Arterial: A direct connector to an Interstate Highway; Arterials are intended to provide a greater degree of mobility rather than land access. Arterials generally convey large traffic volumes for distances greater than one mile. A major arterial is a highway that is of regional importance and is intended to serve beyond the county. It may connect urban centers with one another and/or with outlying communities and employment or shopping centers. A major arterial is intended primarily to serve through traffic.

Significant Impact – Roads: Minor Arterial: A roadway, also serving through traffic, that is similar in function to a major arterial, but operates with lower traffic volumes, serves trips of shorter distances (but still greater than one mile), and may provide a higher degree of property access than do major arterials.

Moderate Impact – Roads: Major Collector: A roadway that provides for traffic movement between local roads/streets and arterials or community-wide activity centers and carries moderate traffic volumes over moderate distances (generally less than one mile). Major collectors may also provide direct access to abutting properties, such as regional shopping centers, large industrial parks, major subdivisions and community-wide recreational facilities, but typically not individual residences. Most major collectors are also county roads and are therefore through streets.

Minor Impact – Roads: Minor Collector: A roadway similar in functions to a major collector but which carries lower traffic volumes over shorter distances and has a higher degree of property access. Minor collectors may serve as main circulation streets within large, residential neighborhoods. Most minor collectors are also township roads and streets and may, or may not, be through streets.

Minimal or No Impact - Roads: Local: A roadway that is primarily intended to provide access to abutting properties. It tends to accommodate lower traffic volumes, serves short trips (generally within neighborhoods), and provides connections preferably only to collector streets rather than arterials.

r	10 Points 8 Points 6 Points 4 Points	
	2 Points Criterion 12 – Economic Health The District 2 Integrating Committee predetermines the applying agency's economic health. The may periodically be adjusted when census and other budgetary data are updated.	economic health of a jurisdiction
13)	Has any formal action by a federal, state, or local government agency resulted in a partial of expansion of the usage for the involved infrastructure?	or complete ban of the usage or
	10 - Complete ban, facility closed 8 - 80% reduction in legal load or 4-wheeled vehicles only 7 - Moratorium on future development, not functioning for current demand 6 - 60% reduction in legal load 5 - Moratorium on future development, functioning for current demand 4 - 40% reduction in legal load 2 - 20% reduction in legal load	Appeal Score
14)	Criterion 13 - Ban The applying agency shall provide documentation to show that a facility ban or moratorium has moratorium must have been caused by a structural or operational problem. Points will only be a project will cause the ban to be lifted.	warded if the end result of the
L++)	What is the total number of existing daily users that will benefit as a result of the proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed proposed propose	Appeal Score
.5)	Has the applying agency enacted the optional \$5 license plate fee, an infrastructure levy, a us pertinent infrastructure? (Provide documentation of which fees have been enacted.)	ser fee, or dedicated tax for the
	5 - Two or more of the above 3 - One of the above 0 - None of the above	Appeal Score
he app	on 15 – Fees, Levies, Etc. lying agency shall document (in the "Additional Support Information" form) which type of fees, he type of infrastructure being applied for.	levies or taxes they have dedicated

12)

What is the overall economic health of the jurisdiction?

PAVEMENT EVALUATION

BLUE ASH ROAD

BLUE ASH, OHIO

Prepared for: CDS Associates, Inc. Thelen Project No.: 031400NEJ



O 1398 Cox Avenue / Erlanger, Kentucky 41018-1002 / 859-746-9400 / Fax 859-746-9408 Ø 2140 Waycross Road / Cincinnati, Ohio 45240-2719 / 513-825-4350 / Fax 513-825-4756 www.thelenassoc.com



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CDS Associates, Inc. 11120 Kenwood Road Cincinnati, Ohio 45242-1818

Attention: Mr. Tim Casto

Re:

Pavement Evaluation

Blue Ash Road Blue Ash, Ohio

Ladies and Gentlemen:

Enclosed herein is our pavement and subgrade evaluation report for improvements proposed for Blue Ash Road in Blue Ash, Ohio. Our services were requested by Mr. Tim Casto, CDS Associates, Inc. (CDS), and authorized with a signed Proposal-Agreement J23160 by Mr. Mark Kluesener, CDS, on December 24, 2003.

We are enclosing with this report a reprint of "Important Information About Your Geotechnical Engineering Report" published by ASFE, Professional Firms Practicing in the Geosciences, which our firm would like to introduce to you at this time.

We appreciate the opportunity to provide the pavement evaluation for this project. Should you have any questions concerning the information, conclusions or recommendations contained in this report, or if we may be of additional assistance to you during the design or construction of the project, please do not hesitate to contact us:

ARTHUR T. STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * STURBAUM * S

Respectfully submitted,

THELEN ASSOCIATES, INC.

Kevin D. Weaver, E.I. Materials/Staff Engineer

Arthur T. Sturbaum, P.E.

Senior Geotechnical Engineer

KDW:ATS:bkm 031400NEJ

H

Copies submitted:

2 - Client





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PAVEMENT EVALUATION BLUE ASH ROAD BLUE ASH, OHIO

1.0 INTRODUCTION

This report consists of a pavement evaluation performed along Blue Ash Road from Cooper Road to Belleview Avenue in Blue Ash, Ohio. The pavement evaluation was accomplished by performing an engineering reconnaissance of the site as well as the completion of four (4) pavement cores with base thickness measurements and shallow subgrade soil sampling.

2.0 SCOPE

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The purpose of this evaluation was determine the condition of the existing pavement and subgrade soils and to relate their engineering properties, that is their thickness, strength, classification and compressibility characteristics to serviceability of the present street and to provide limited recommendations pertaining to potential improvements.

3.0 PROJECT CHARACTERISTICS & RECONNAISSANCE

This section of Blue Ash Road is currently under consideration for rehabilitation. To our knowledge, it has yet to be determined whether rehabilitation will consist of complete removal and replacement of the pavements or if existing pavements may be improved by an overlay. This section of Blue Ash Road consists of asphaltic concrete underlain by Portland cement concrete. The asphaltic concrete surface varies from poor to fair in condition based on visual observation. This section of Blue Ash Road appears to have

A bag sample was obtained from an offset hole located 20.0 feet west of Core 2 from 0.5 feet to 2.0 feet below the ground surface. This native soil was found to have an Atterberg liquid limit of 62 percent and plasticity index of 39 percent. This soil contained 1.1 percent gravel-size particles, 10.7 percent sand-size particles and 88.2 percent silt and clay-size particles by weight. This material classifies as CH, according to the Unified Soil Classification System (USCS) and A-7-6, according to the American Association of State Highway and Transportation Officials (AASHTO). A standard Proctor moisture-density test, ASTM D698 (AASHTO T-99) was performed on the soil sample obtained in the offset hole. The soil has a maximum dry density of 104.0 pcf at an optimum moisture content of 16.9 percent. This native clay had an in situ moisture content of 28.6 percent. For the purposes of preparing a pavement design a California Bearing Ratio (CBR) test was performed on this bag sample. The sample was remolded to 97.3 percent of maximum Proctor density to better approximate the existing in situ densities. The sample yielded a CBR value of 4.48 psi at 0.1 inches of penetration.

The Drilling Technician did not note that groundwater was present during sampling or at the completion of sampling for any of the pavement cores. Water was introduced to the core to facilitate coring. The test borings were immediately backfilled and patched with cold-patch asphalt.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 General

Based upon our engineering reconnaissance of the site, the pavement cores, a visual examination of the samples, the laboratory tests, our understanding of the proposed construction, and our experience as Consulting Soil Engineers in the Greater Cincinnati Area, we have reached the following conclusions and make the following recommendations.

The conclusions and recommendations of this report have been derived by relating the general principles of the discipline of Geotechnical Engineering to the proposed construction. Because changes in surface, subsurface, climatic and economic conditions can occur with time and location, we recommend for our mutual interest that the use of this report be restricted to this specific project.

We recommend that our office be retained to review the final design documents, plans and specifications, to assess any impact changes, additions or revisions in these documents may have on the conclusions and recommendations of this geotechnical report. Any changes or modifications which are made in the field during the construction phase which alter site grading, infrastructure or other related site work should also be reviewed by our office prior to their implementation.

if conditions are encountered in the field during construction which vary from the facts of this report, we recommend that our office be contacted immediately to review the changed conditions in the field and make appropriate recommendations.

The scope of our services did not include any environmental assessment or investigation for the presence or absence of wetlands or hazardous or toxic materials in the soil, bedrock, surface water, groundwater or air, on or below or around this site.

It is our understanding that the time frame for beginning and completing the rehabilitation work for this project will be continuous without interruption or delay. Should interruptions or delays occur, our office should be kept appraised to determine what recommendations must be modified accordingly.

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We have performed the pavement cores and laboratory tests for our evaluation of the site conditions and for the formulation of the conclusions and recommendations of this report. We assume no responsibility for the interpretation or extrapolation of the data by others.

The recommendations of this report presume that the rehabilitation will be monitored by an Engineering Technician under the direction of a Registered Professional Geotechnical Engineer. We recommend that these services be contracted directly with Thelen Associates, Inc.

After you have had an opportunity to study this report and to discuss its implications, we recommend that a meeting be held between the members of the design team to review the plans and specifications in light of the report. This meeting should be held prior to submitting the contract documents in the market place for bidding

The existing pavement for this section of Blue Ash Road consists of 2.5 inches to 5.0 inches of asphaltic concrete underlain by 7.25 inches to 10.0 inches of Portland cement concrete. Numerous patches and utility cuts were noted throughout this section of roadway. The majority of the pavement distress is a result of the reflective cracking.

Because of the surface conditions of this section of Blue Ash Road along with the apparent maintenance evidenced by the patches, it is our opinion that the pavement sections are nearing the end of their design life. Proper reconditioning of the existing street will require either the removal of the existing pavements, reconditioning of the soil subgrades and the replacement of a new pavement section or the use of a "Rubblize and Roll" procedure described by the State of Ohio Department of Transportation (ODOT) Design Pavement and Rehabilitation Manual, Section 602.

7.2 Pavement Rehabilitation

The existing soil subgrade beneath the pavement is stiff to very stiff in consistency. Due to the in situ moisture contents these soils would require an excessive amount of time to dry the subgrade soils to prepare a suitable soil subgrade. Our recommendations for preparation of the soil subgrade surface is to prooffoll the subgrade and undercut and

Geotechnical • Testing Engineers. ELENASSOCIATES, INC.

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CDS ASSOCIATES, INC. PAVEMENT EVALUATION BLUE ASH ROAD BLUE ASH, OHIO 031400NEJ

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TABULATION OF LABORATORY TESTS

,		USCS/AASHTO	Classification												CH/A-7-6		
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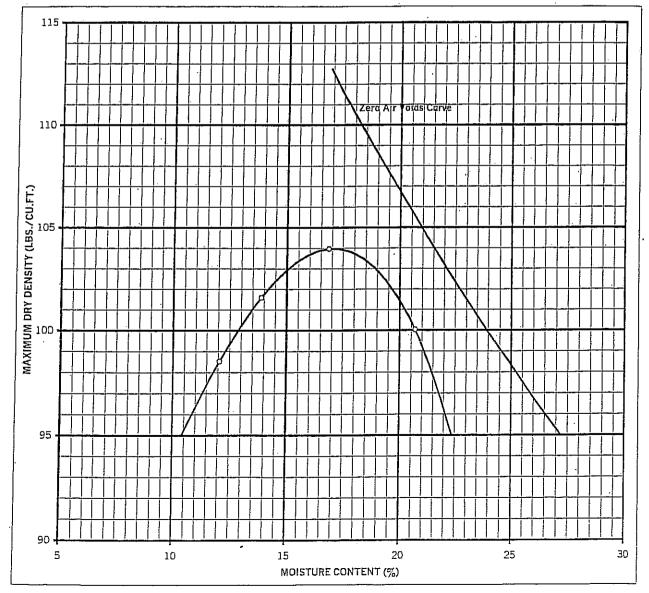
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MOISTURE DENSITY TEST

ı	CDS Associates, Inc.		Date:	01/06/03
		i	Project No.	031400NEJ
			Lab No:	030150N
			Project:	Pavement Evaluation
				Blue Ash Road
				Blue Ash, Ohio

Sample Obtained From On-Site, 20' West of Core No. 2		Depth : 0.5' - 2.0'
Sample Description: Mottled brown, trace gray CLAY, little fin	e to coarse sand, t	
USCS Classification: CH		HTO Classification: A-7-6
LL = 62 PL = 23 PI = 39	In S	Situ Moisture Content: 28.6%
Maximum Dry Density: 104.0 P.C.F.	Opt	imum Moisture Content 16.9 %
Test Type: Standard Proctor, ASTM D698		
Method: Method C		



CLENASSOCIATES, INC.

Geotechnical • Testing Engineers

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CLAY CDS Associates, Inc. HYDROMETER 0.01 SILT Cilent: SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES ASTM C-136 ᆸ 굽 0.1 핕 O 1398 Cox Avenue / Erlanger, Kentucky 41018-1002 / 859-746-9400 /. Fax 859-746-9408 Ø 2140 Waycross Road / Cincinnati, Ohio 45240-2719 / 513-825-4350 / Fax 513-825-4756 U.S. STANDARD SIEVE NUMBERS 9 Nat. w% GRAIN SIZE (MILLIMETERS) SAND 윉. Medium 16 Mottled brown, trace gray CLAY, little 0 Coarse Description ø. Fine 38 10 ហ U.S. STANDARD SIEVE SIZE IN INCHES Coarse Elev. or Depth 0.5' - 2.0' COBBLE 80 Sample No. BOULDER 1000 Boring No. Вав 108 8 8 70 9 \$ 8 2 22 23

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Pavement Evaluation

Project

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AASHTO CLASSIFICATION IS A.7.6 USCS CLASSIFICATION IS CH

line to coarse sand, trace line gravel

SILT & CLAY

SAND 10.7%

GRAVEL 1.1%

Specification

88.2%

Blue Ash, Ohlo 031400NEJ Blue Ash Road

01/12/04

Project No.: Date:

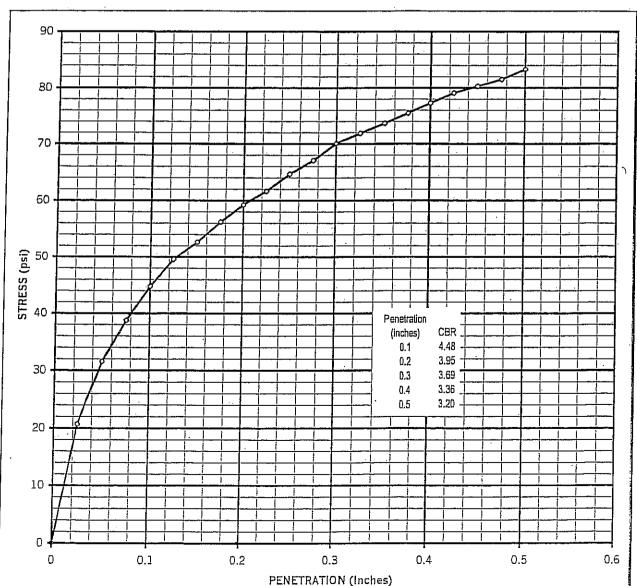


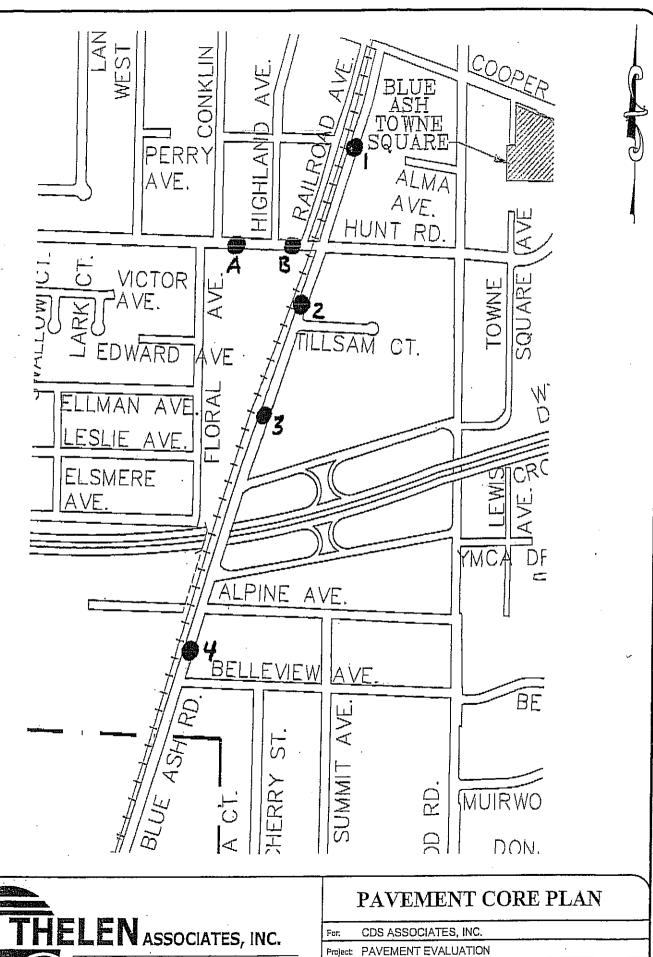
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LABORATORY CBR TEST RESULT

Client:	CDS Associates, Inc.	Date :	01/12/04
		Project No.	: 031400N
		Lab No:	D40001N
		Project:	Pavement Evaluation
		,	Blue Ash Road
			Blue Ash, Ohio

Sample Obtained From: 20' Wes	st of Core No. 2	Depth: 0.5' - 5.0'
	brown, trace gray CLAY, little fine to coar	se sand, trace fine gravel
USCS Classification: CH	AASHTO Classification:	A-7-6
LL = 62 PL = 23 Pl =	11, 5,12 1,15,5,15, 5 05,115,10	28.6%
Maximum Dry Density: 104.0 P.		nt: 16.9 %
Test Type: Standard Proctor	, ASTM D698	· · · · · · · · · · · · · · · · · · ·
Percent compaction during CBR to	est = 97.3% at a dry density of 101.2 P.C.F	. and 20.6% moisture
Moisture content of top inch =	22.2 %	





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PAVEMENT EVALUATION BLUE ASH ROAD & HUNT ROAD

Location: BLUE ASH, OHIO



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LOG OF PAVEMENT CORE A	ND TE	ST B	ORI	NG			
CUENT: CDS Associates, Inc.				BORI	NG #		
PROJECT: Payement Evaluation, Blue Ash Road, Blue Ash, Ohio					ов <u>#.03</u>	<u> 140</u>	ONEJ
LOCATION OF BORING: Southbound lane Blue Ash Road approximate	∍ly 300 f	eet nor	th of				
SOIL DESCRIPTION COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTION	NS DEPT	DEPTH H SCALE (fi.)		SAM	PLE	- 1	
SURFACE	(ln.) (11.)	Cond	Blows/5"		Туре	(111-7
ASPHALTIC CONCRETE (Good condition, well compacted)	2.5	_ =	I		1A 1B	PC	2.5 10.0
PORTLAND CEMENT CONCRETE (10", Top 6" heavily fractured with ¼" diameter W.W.F.)	12.5		T			1	- 6 /24
Mottled dark brown moist stiff FILL, sandy silty clay, trace fine gravel and cinders with roots.	18.5] =					
Bottom of test boring at 18.5 inches.		2 =		•			
Bottom of tool borning as the		=	1				_
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Datum Hammer Wt Hole Diam	eter	5 in.		reman			
Surf. Elev Hammer Drop Rock Core	: Dia		— Er	-	KDW		-04
Date Started 1-5-04 Pipe Size Boring Me	thod		Do	ite Completo		-5-	<u>-∪+</u>
SAMPLE CONDITIONS SAMPLE TYPE' GROUND		PTH ft.	ПСY	BORING M ! HOLLOW -		GERS	i
D - DISINTEGRATED DS - DRIVEN SPLIT SPOON FIRST NOTED 1 - INTACT PT - PRESSED SHELBY TUBE AT COMPLETIC	None ON <u>Drv</u>	ft.	CFA	- CONTINUO - DRIVING O	ous flig	HT A	UGERS



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LOG OF PAVEMENT C	ORE AND	TES	ST B	ORIN	G			
CUENT: CDS Associates, Inc.					BORING			
PROJECT: Pavement Evaluation, Blue Ash Road, Blue Ash,					JOB	# <u>03</u>	140	ONEJ
LOCATION OF BORING: Northbound lane Blue Ash Road in 1	<u>ront of 9392</u>	Blue	Ash R	oad	-			
SOIL DESCRIPTION COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE,	DOUBLEAUG	STRATA DEPTH	DEPTH SCALE (ft.)		SAMPLE			
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ASPHALTIC CONCRETE (Good condition, well compacted)		0.0 4.5	-	I		1A	PC	4.25 7.25
PORTLAND CEMENT CONCRETE (7.25", heavily fractured		11.5				'	ا	7,20
with ¼" diameter W.W.F.)		11.5	1 —					16"/
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		•	2 —					
Brown and gray moist stiff to very stiff SILTY CLAY.		27.5	_ =					
Bottom of test boring at 27.5 inches.			_ =					
Bottom of test boining at 27.15 mones.	*		3 -					
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Surf. Elev. Hammer Drop	Rock Core Dia.				neer <u>KD</u>	N		
Date Started 1-5-04 Pipe Size	Boring Method			Date	Completed		-5-	04
	GROUND WATE	R DEP	ГĦ		ORING METE			
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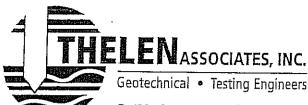


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]	LOG OF PAVEMEN	T CORE AND	TES	ST B	ORING	-			
CLIENT: <u>CDS Associates,</u>						BORING			
	ation, Blue Ash Road, Blue					JOE	# <u>.03</u>	314C	ONEJ
LOCATION OF BORING: Northb	ound lane Blue Ash Roa	<u>d in front of 9268</u>	3 Blue	Ash R	oad			·	
COLOR MOIS	SOIL DESCRIPTION TURE, DENSITY, PLASTICITY,	SIZE BONDADTIANS	STRATA DEPTH	DEPTH SCALE (ft.)		SAMPL	E	·	
COLOR, MOIS		SIZE, FROFORTIONS	1	(ft.)	Cond E	liows/6"	No.	Тура	Rec. (In.)
ASPHALTIC CONCRETE (SURFACE Good condition, well compact	ed)	4.0 4.0	_	I		1A	PC	4.0 7.5
PORTLAND CEMENT CON	NCRETE (9.5", Good condition		17.5	_			10	PU	7.5
diameter W.W.F.)			13.5	1 _			1,	РТ	147
				_	U		-	'	/24-
Grayish brown moist st	iff FILL, silty clay, trace limest	one fragments.	27.5	2 —					
Bottom o	f test boring at 27.5 inc	ches		_					
Bottom 6	r test borning at 27.0 mit	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3 —					
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Datum	Hammer Wt.	Hole Diameter	5	in.	_ Foremo	n <u>JP</u>	/DF		
Surf. Elev.						er <u>KD</u>	W		
Date Started 1-5-04					Date Co	ompleted	1	-5-	04
SAMPLE CONDITIONS	SAMPLE TYPE	GROUND WATE	R DEPI	H	BOR	ING MET	HOD		
D - DISINTEGRATED DS -	DRIVEN SPLIT SPOON	FIRST NOTED N	lone	ft.		LLOW STE			IGEPS
	PRESSED SHELBY TUBE CONTINUOUS FLIGHT AUGER	AT COMPLETION AFTER hrs)ry •	ft. ft.		IVING CAS		11 /10	, ULI 14



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ROJECT: Pavement Evaluation, Blue Ash Road, Blue Ash, Ohio		- :			JoB # _	314	<u>OONE</u>
ocation of Boring: Center lane Blue Ash Road in front of 9012 Blue							
SOIL DESCRIPTION COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS	DEPTH	DEPTH SCALE			AMPLE	_	
SURFACE	(in.) 	(ft.)	Cond	Blows		. Туре	1 (161-)
ASPHALTIC CONCRETE (Good condition, well compacted)	5.0	=	I		11	AIPC BIPC	5.0 9.5
PORTLAND CEMENT CONCRETE (9.5*, Very heavily fractured)	14.5	1 -	U			2 PT	147/24
Brown and gray moist stiff to very stiff SILTY CLAY.	28.5	2 -					
Bottom of test boring at 27.5 inches.		3 -					
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		5 =					,
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m Hammer Wt Hole Diameter	<u>-</u>	in	Fore	eman	JP/DF		
Elev. Hammer Drop Rock Core Dia.				ineer	KDW		
Started 1-5-04 Pipe Size Boring Method				Comple		-5-0	04
LE CONDITIONS SAMPLE TYPE' GROUND WATER		-7	-	ORING I	HORITOR		



○ 1398 Cox Avenue / Erlanger, Kentucky 41018-1002 / 859-746-9400 / Fax 859-746-9408 ② 2140 Waycross Road / Cincinnati, Ohio 45240-2719 / 513-825-4350 / Fax 513-825-4756 www.thelenassoc.com

SOIL CLASSIFICATION SHEET

NON COHESIVE SOILS (Silt, Sand, Gravel and Combinations)

<u>Density</u> Very Loose Loose Medium Dense Dense Very Dense	 5 blows/ft. or less 6 to 10 blows/ft. 11 to 30 blows/ft. 31 to 50 blows/ft. 51 blows/ft. or more 	Particle S Boulders Cobbles Gravel	ize Identificat - 8 inch d - 3 to 8 inch - Coarse - Fine	ion iameter or more ch diameter - 3/4 to 3 inches - 3/16 to 3/4 inches
Relative Properti Descriptive Term Trace Little	es Percent 1 – 10 11 – 20	Sand	CoarseMediumFine	 2mm to 5mm (dia. of pencil lead) 0.45mm to 2mm (dia. of broom straw) 0.075mm to 0.45mm
Some And	21 – 35 36 – 50	Silt		(dia. of human hair) - 0.005mm to 0.075mm (Cannot see particles)

COHESIVE SOILS (Clay, Silt and Combinations)

Very Soft Easily penetrated several inches by fist Less than 0.25 Medium Stiff Can be penetrated several inches by thumb with moderate effort Stiff Readily indented by thumb but penetrated only with great effort Readily indented by thumbnail 1.0 – 2.0 Hard Indented with difficulty by thumbnail Over 4.0

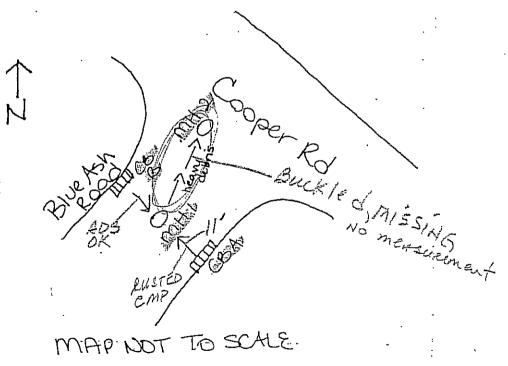
Classification on logs are made by visual inspection.

Standard Penetration Test – Driving a 2.0" O.D., 1 3/8" I.D., sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. It is customary to drive the spoon 6 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and making the tests are recorded for each 6 inches of penetration on the drill log (Example – 6/8/9). The standard penetration test results can be obtained by adding the last two figures (i.e. 8+9=17 blows/ft.). Refusal is defined as greater than 50 blows for 6 inches or less penetration.

<u>Strata Changes</u> – In the column "Soil Descriptions" on the drill log, the horizontal lines represent strata changes. A solid line (————) represents an actually observed change; a dashed line (————) represents an estimated change.

Groundwater observations were made at the times indicated. Porosity of soil strata, weather conditions, site topography, etc., may cause changes in the water levels indicated on the logs.

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Date 2/26/01		Investigator: Tim Bilby (SWS)	10000000000000000000000000000000000000	Video Tape # 11 10 70 75 75
Area Blue As		Sub-Area:		Video Counter: 00:00 - 01:14
Complaint Address 8	& Date:	City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather. 35 F
Upstream MH Addre	 	near I/O Cooper Rd. & Blue Asl	ı Rd.	Type of Pipe: Corrugated Steel
Downstream MH Add	dress:	I/O Cooper Rd. & Blue Ash Rd.		Pipe Size (inch): 12.0
Line Location:	street			Pipe Length (ft.): Unknown
Surface Cover:	asphalt			TVd Distance (ft.): 4.0
PHYSICAL MEASUR	REMENTS:		MANHOLE DEPTHS:	USMH (ft.): 8' 0"
Section Ground Dista		Unknown	the figure of the	DSMH (ft): 《
Condition Being Inve	stigated:	Pipe Condition		Water State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the
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				1. A.
0.0	Manhole	1 D.S. to MH 2		
			e due to debris	
2.0	Manhole	1 D.S. to MH 2 bottom, right side, difficult to se light	e due to debris	
2.0	Manhole Pipe Missing	bottom, right side, difficult to se light		
2.0 2.0 - 4.0 4.0	Manhole Pipe Missing	bottom, right side, difficult to se		
2.0 2.0 - 4.0 4.0	Manhole Pipe Missing	bottom, right side, difficult to se light Camera could not continue due	to light debris, backed	i out.
2.0 2.0 - 4.0 4.0	Manhole Pipe Missing	bottom, right side, difficult to se light	to light debris, backed	i out. SWS inspected from
2.0 2.0 - 4.0 4.0	Manhole Pipe Missing	bottom, right side, difficult to se light Camera could not continue due Note: Section requires cleaning MH 1 D.S. to MH 2 from 03:52 to	to light debris, backed prior to reinspection. 0 07:08 minutes on the	f out. SWS inspected from same video tape as
2.0 2.0 - 4.0 4.0	Manhole Pipe Missing	bottom, right side, difficult to se light Camera could not continue due Note: Section requires cleaning	to light debris, backed prior to reinspection. 0 07:08 minutes on the	f out. SWS inspected from same video tape as



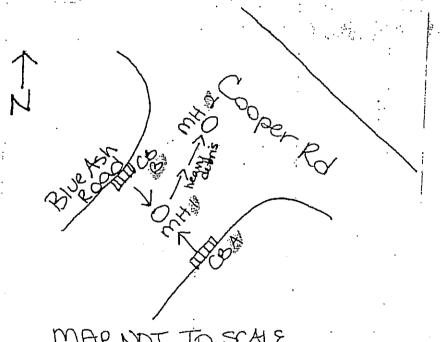
SWS ENVIRONMENTAL SERVICE 10860 INDECO DRIVE CINCINNATI, OH 45241

Fllename:

Blue_01.xis

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Electrical Control of the Administration of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	SWS TV	INVESTIGATION	Job#:	Page 2 of 25
Date: 2/26/01		Investigator. Tim Bilby (SWS		the the management of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco
Area: Blue As		Sub-Area:	संदर्भक्षेत्रकेतिक समित्रका देशकेत्रका । सन्	Moed Tape #
Complaint Address	& Date:	City of Blue Ash, Railroad Av	ve @ Hunt Road	Video Counter: 01:14 - 02:30
Upstream MH Addre	ess:	near I/O Cooper Rd. & Blue	Ash Rd	Weather 35 F
Downstream MH Ad	dress:	near I/O Cooper Rd. & Blue		Type of Pipe Corrugated Stee
Line Location:	street	a se ocopor red. de blue /		Pipe Size (Inch): 12.0
Surface Cover:	asphalt	•		Pipe Length (ft.): Unknown
PHYSICAL MEASUR	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		TVd Distance (ft.): 12.0
Section Ground Dista	ince:	Unknown	MANHOLE DEPTHS:	USMH (ft.): 322 - 22 - 5' O'
Condition Being Inve	stigated:	Pipe Condition		DSMH(ft): 8"0"
ootage	Remarks			and the programmer of the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer and the second programmer
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2.0 - 11.0	Deterioration ·	evidence of rusting through ti	his section	
12.0	Catch basin	middle of CB A. End of section		
	· · · · · · · · · · · · · · · · · · ·			



MAP NOT TO SCALE

SWS ENVIRONMENTAL SERVICE 10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_02.xis (t) 513-793-7417 (f) 513-793-8751 (email) sws@pipeline.com

	to a constitutive to	SWS	/ INVESTIG	BATION	Job#	Page 3 of	
		到的别人的一点	Investigator.	Tim Bilby (SWS		a Video Tape # 197	
Area:	Blue Ast	r Pari	^{:-} ≟ Sub-Area:			Video Counter:	00:00: 00:5:
Complaint A	ddress (🖁 Date: 🔞 . 🗯	City of Blue A	sh, Railroad Av	e @ Hunt Road	Weather.	02:30'- 03:5
Upstream M	H Addre	ss:			sh Rd.	Type of Pipe: Com	100tod Dis-11
Downstream	MH Ad	dress:		er Rd. & Blue A		Pipe Size (inch):	
Line Locatio	n: .	street	:	- :		Pipe Length (ft.):	12.
Surface Cov	er:	asphalt				TVd Distance (ft.):	Unknows 18.2
PHYSICAL N					MANHOLE DEPTHS	The lotter from the control many and a state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
Section Grou	ind Dista	ince: 🤃 🖽 🥞	⊎ Unknown	:	大大學與實際關於 (1)	DSMET(ft):	6'.7
Condition Be	ing Inve	stigated: 🚈 🔅	Pipe Condition		4.7% No. 50 (1997)		Spannershaute Q / O.
ootage 🗼	14°	Remarks 🖘					namanan arawa kata kananan kata ka
0.0	<u>:</u>	Manhole	1 U.S. to CB E	3	<u> </u>		
16.2 -	18.2	Debris	light gravel			<u> </u>	
18.2		Catch basin		3. End of section	n.	7	
±¥.,		↑ 7		30	Per Ro		

MAP NOT TO SCALE

SWS ENVIRONMENTAL SERVICE

10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: *-Blue_03.xis

(t) 513-793-74<u>1</u>7

(f) 513-793-8751

(email) sws@pipeline.com

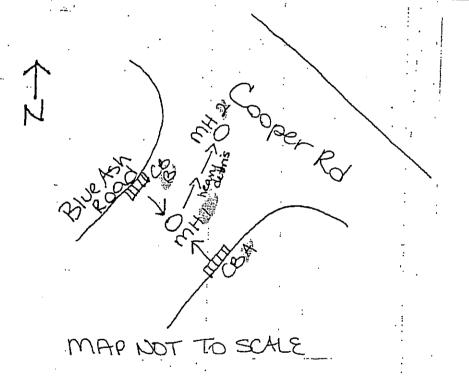
A District Control of the	Maria Variation and Communication	SWS T∀	INVESTI	GATIO	V	Job #:	Page .	of 25
Date:	2/26/01		Investigator.	Tim Bilby	(SWS)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Video Tape #	1
Area:	Blue As		Sub-Area:				Video Counter:	03:52 - 07:08
Complaint A			City of Blue	Ash, Railro	oad Ave. (@ Hunt Road	Weather:	35 F
Upstream M			near I/O Co			Rd.	Type of Pipe: Co	
Downstream			I/O Cooper	Rd. & Blue	Ash Rd.		Pipe Size (inch):	12.0
Line Locatio		street					Pipe Length (ft.):	Unknown
Surface Co	was to several to	asphalt					TVd Distance (ft.):	76.0
PHYSICAL			·		····	MANHOLE DEPTHS:	USMH (ft.):	8' 0"
Section Gro		 	Unknown				DSMH (ft):	
Footage	ing inves	tigated: ************************************	Pipe Conditi	on		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	the same and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t	Section of the section
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2.0 -	4.0	Pipe Missing			· · · ·			
2.0 -		·	bottom, righ	it side				
		Debris	light gravel				·	·
2.0 -		Crack	light at 5:00	" <u>-</u>				
22.0 -		Crack	medium at 8	3:00, pipe a	ppears to	be buckled .		•
32.0 -		Ponding	belly	•			<u> </u>	· .
57.0 -		Debris	light gravel					
65.0 -		Debris	medium grav	vel		(Men).	·	
76.0 -	+	Debris	heavy			<u> </u>		
76.0		•	Camera coul	ld not conti	nue due ti	o heavy debris, back	ed out. Unable to	see
			downstream	manhole				
			·					
•			Note: SWS c	leaned and	attempte	d to reinspect this s	ection. Section req	uires
						deterioration (e.g. ru		
			intermittently				•	,
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SWS ENVIRONMENTAL SERVICE 10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_04.xls

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terresida de missa esta propriedad des montes de que tras accessos.	SWS TV	INVESTIGATION	Job #.	2.5 % Page 5 of 25
Date: 2/26/0		investigator: Tim Bilby (SWS)	字、哈·纳·纳·特拉德。	Video Tape #
Area: Blue A	ish -	Sub-Area:	•	Video Counter. 07:08 - 08:19
Complaint Addres		City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather 35 F
Upstream MH: Add		I/O Hunt Rd. & Blue Ash Rd.		Type of Pipe: Corrugated Plastic
Downstream MH A	\ddress:	I/O Hunt Rd. & Blue Ash Rd.		Dia 32 7
Line Location:	street			Pipe Length (ft.): 12.0
Surface Cover:	asphalt		·	TVd Distance (ft.): 28.4
PHYSICAL MEASI			MANHOLE DEPTHS:	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Section Ground Dis	stance.	Unknown	14 - 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DSMH (ft): 2' 7"
Condition Being Inv	/estigated:	Pipe Condition	:	1 公债的
Footage	Remarks		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
0.0	Manhole	3 U.S. to CB C / - ' - /		
27.4	Catch basin	middle of CB C. End of section.	:	. 14
• 1				



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and the second second second second second second second second second second second second second second second	INVESTIGATION Job#	Page 6	of 25
ate: 2/26/01:	Investigator: Tim Bilby (SWS):	類 Video Tape #:※対	Arterior Contraction of the
rear Blue Ash	Sub-Area:	Video Counter.	08:19 - 09:0
omplaint Address & Date:	City of Blue Ash, Railroad Ave. @ Hunt Road	Weather	35
ostream MH Address;	I/O Hunt Rd. & Blue Ash Rd.	Type of Pipe: Com	ugated Plasti
ownstream MH Address:	I/O Hunt Rd. & Blue Ash Rd.	Pipe Size (inch):	12.
ne Location: street		Pipe Length (ft.):	18.0
ırface Cover: asphalt		TVd Distance (ft.):	20.2
IYSICAL MEASUREMENTS:	MANHOLE DEPTHS:	USMH (ft.):	2° 5
ction Ground Distance:	Unknown	DSMH (ft):	5 2
ndition Being Investigated:	Pipe Condition	4,5	
otage Alemarks Remarks	A SA PER AN AN AN AN AN AN AN AN AN AN AN AN AN	en Service de Britando de Compos de Significación (service) en la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición del composición de la composición del composición de la composición de la composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición del composición del la composición del composición del composición del composición d	the extra contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the cont
0.0 Manhole	3 U.S. to CB D	· New York	
20.2 Catch basin	middle of CB D. End of section.		
	Tills		• • •
·	Tillsamct.	PK	

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			And the second of		
	SWST	V INVESTIGATION	Job#	Page 7	of:25
Date: 2/25/01	•	Investigator: Tim Bilby (SWS)	e manufact a terrahedra (s.c.). Program a climbo de sidorod por estibada terra sud se robusana	Video Tape #	u pagangan
Area: Blue As		Sub-Area:		Video Counter	00:00 4:00
Complaint Address		City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather:	09:06 - 1:1:2
Upstream MH Addre		I/O Hunt Rd. & Blue Ash Rd.		Type of Pipe: Corr	35.
Downstream MH Ad		I/O Tillsam & Blue Ash Rd.		Pipe Size (inch):	
Line Location:	street			Pipe Length (ft.):	12.0 20.0
Surface Cover:	asphalt		,	TVd Distance (ft.):	31.6
PHYSICAL MEASUR			MANHOLE DEPTHS:	USMH (ft.):	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
Section Ground Dista	·	Unknown		DSMH (ft):	57.2'
Condition: Being Inve	stigated:	Pipe Condition		JOSIMIT (IL):	<u>4'-9'</u>
ootage	Remarks		in the Padagord was grown to accommunity by the page.		
0,0	Manhole	3 D.S. to MH 4			
26.0 - 31.6	Debris	light to medium sand and grave			
31.6		Camera could not continue due		red out.	
		Note: Pipe appears to be in good	i structuralishape dowr	stream from 31.6 f	eet.
	· · · · · · · · · · · · · · · · · · ·	SWS inspects this section going	from MH 4 upstream to	MH 3 from 13:05	<u>.</u>
		to 23:30 minutes on this video ta	pe. See video log 10 d	of 25.	
		So /	/ / .		

MAP NOT TO SCALE

SWS ENVIRONMENTAL SERVICE

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	606	Investigator. Tim Bilby (SWS)		Video Tape #	Toward of the All Designation of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Com
	ie Ash	Sub-Area:	N. P. S. S. S. S. S. S. S. S. S. S. S. S. S.	Video Counter	A+.04
Complaint Address & Date:		City of Blue Ash, Railroad Ave. @		Weather	11:21-12:0
pstream MH A		I/O Tillsam Ct. & Blue Ash Rd.			351
ownstream Mi	H Address:	I/O Tillsam Ct. & Blue Ash Rd.		Pipe Size (inch):	rugated Plasti
ine Location:	street				12.0
urface Cover.	asphait			Pipe Length (ft.):	Unknowr
HYSICAL MEA	ASUREMENTS:		(A)IIIO	TVd Distance (ft.):	14.5
ection Ground		Unknown	MANHOLE DEPTHS:	USMH (ft.):	350'
ondition Being		Pipe Condition	e deserved.	DSMH (ft):	41-91
otage	Remarks	1 ipe duitation	enter de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de la contracte de 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0.0	Manhole	4 U.S. to CB E			
14.5	Catch basin	middle of CB E. End of section.			
			8		
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/	2°CMD ROTTEL	BULLE		12"	- - ·
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SWS ENVIRONMENTAL SERVICE

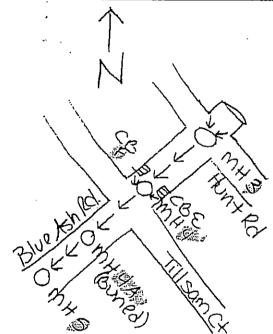
10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_08.xls

(t) 513-793-7417 (f) 513-793-8751 (email) sws@pipeline.com

12" CMP ROTTEH No mens. Too much debris

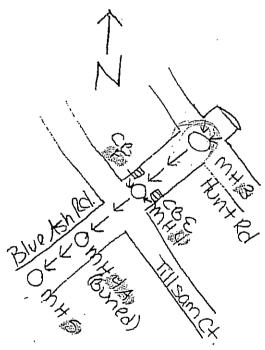
· û. Evî-	SWS TV	INVESTIGATION	Job#:	· · · Page 9 (of 25
Date: 2/26/01	学期的证明 河岸	Investigator. Tim Bilby (SWS)	1786萬本公司	Video Tape #	de alle e d'Alle e alle É prospà esperiencement dependènce de la financia (notation de la company
Area: - Blue Ash	Berny	Sub-Area;		Video Counter.	12:07 - 13:05
Complaint Address &	& Date:	City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather'	35 F
Upstream MH Addre	ss: ⁻ⁱ	I/O Tillsam Ct. & Blue Ash Rd.		Type of Pipe: Con	ugated Plastic
Downstream MH Add	dress:	I/O Tillsam Ct. & Blue Ash Rd.		Pipe Size (inch):	12.0
Line Location:	street ·			Pipe Length (ft.):	18.0
Surface Cover:	asphalt			TVd Distance (ft.):	23.0
PHYSICAL MEASUR	REMENTS:		MANHOLE DEPTHS:	USMH (ft.):	2' 9"
				i	
Section Ground Dista	ance: 小一一學	· Unknown	·	DSMH (ft):	4" 9"
Section Ground Dista Condition Being Inve		Unknown Pipe Condition		DSMH*(ft):	4" 9"
				DSMH'(ft):	4" 9"
Condition Being Inve	stigated:			DSMH (ft):	4' 9"
Condition Being Inver Footage 0.0	stigated:	Pipe Condition		DSMH [*] (ft):	4' 9"
Condition Being Inver Footage 0.0	stigated:	Pipe Condition 4 U.S. to CB F		DSMH (ft):	4' 9"



SWS ENVIRONMENTAL SERVICE 1 0860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_09.xls-

	SWS TV	INVESTIGATION	Job #:	Page 10	of 25
Date 2/26/01		Investigator: Tim Bilby (SWS)	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Video Tape #:	e en Parent Comment (MES) to the disclosure of the disclosure Comment
Area: Blue Ash		Sub-Area:		Video Counter:	13:05 - 23:30
Complaint Address 8	L Date:	City of Blue Ash, Railroad Ave.	@ Hunt Road:	Weather:	35 F
Upstream MH Addre	ss:	I/O Hunt Rd. & Blue Ash Rd.		Type of Pipe: Cor	rugated Plastic
Downstream MH Add	iress:	I/O Tillsam Ct. & Blue Ash Rd.		Pipe Size (inch):	12.0
Line Location:	street			Pipe Length (ft.):	20.0
Surface Cover:	asphalt	-		TVd Distance (ft.):	371.4
PHYSICAL MEASUR	EMENTS:		MANHOLE DEPTHS:	USMH (ft.):	5' 2"
Section: Ground Dista	ince:	Unknown		DSMH (ft):	4° 9"
Condition Being Inve	stigated:	Pipe Condition			
Footage	Remarks				A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA
0.0	Manhole	4 U.S. to MH 3			
355.0 - 357.0	Debris	light gravel			
366.0 - 371.4+	Debris	light to medium gravel			
371.4		Overlapped footage from previo	us inspection, backed	out.	
· :		Note: SWS inspected 31.6 ft. of	this section from MH 3	D.S. to MH 4 on t	his tape
		from 09:06 to 11:21 minutes. Se	ee videolog 7 of 25.		



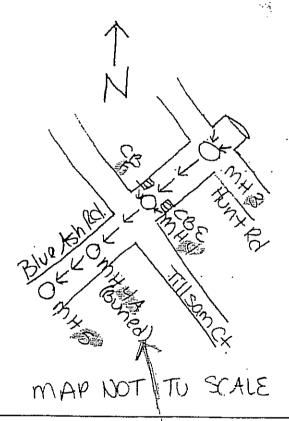
SWS ENVIRONMENTAL SERVICE 10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_10.xls

(t) 513-793-7417

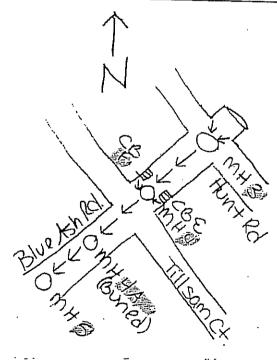
(f) 513-793-8751

	SWSTV	INVESTIGATION Joh#:	wilso in . Page 11 of 25	
Date: " 2/26/01	And British and the second	Investigator Tim Bilby (SWS)	Wideo Tabe # 14 14 14 14 14 14 14 14 14 14 14 14 14	embratie
Area: Blue As		Sub-Area:	Video Counter 23:30 - 2	
Complaint Address	& Date:	City of Blue Ash, Railroad Ave. @ Hunt Road	المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراج	35 F
Upstream MH Addre	ess:	near I/O Tillsam Ct. & Blue Ash Rd:	Type of Pipe: Corrugated St	eel
Downstream MH Ad	dress:	near I/O Tillsam Ct. & Blue Ash Rd.		12.0
Line Location:	street		Pipe Length (ft.): Unknown	IWC
Surface Cover.	asphalt			2.3
PHYSICAL MEASUR	REMENTS:	MANHOLE DEPTHS:	USMH (ft.):	F. 61
Section Ground Dist	апсе:	Unknown	DSMH (ft): Bu	
Condition Being Inve	stigated:	Pipe Condition	- and the little of the second	
Condition Being Inve	estigated: Remarks	Pipe Condition		
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Footage	Remarks Manhole	4 D.S. to MH 4A		
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Date: 2/26/01		Investigator. Tim Bilby (SWS)	Video Tape #:	e dignament de la grand de de conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conserva de la conser
Area: Blue As		Sub-Area:	Video Counter:	27:22 00
Complaint Address		City of Blue Ash, Railroad Ave. @ Hunt Road	Weather:	27:28 - 32:
Jpstream MH Addre		I/O Tillsam Ct. & Blue Ash Rd.		35
Downstream MH Ad	dress:	9308 Blue Ash Road	Type of Pipe: Cor	rugated Ste
ine Location:	street		Pipe Size (inch):	12
Surface Cover:	asphalt		Pipe Length (ft.):	Unknov
HYSICAL MEASUR	EMENTS:	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	TVd Distance (ft.):	53.
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ootage	Remarks	. The Condition	the second section with the second section and the second section is a second section of the second section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section se	**************************************
0.0	Manhole	4A D.S. to CBG (SEE PAGE 13)		
2.0 - 5.0	Debris	(SEC PAGE 13)		
2.0 - 55.3+	Deterioration	intermittent rusting, primarily at flow line		
50.8	Debris	2 large pieces of concrete or metal in line		
53.3.		Camera could not continue due to debris, backed out.		
		Dacked Out.		
		Note: Section appears clean downstream from this poi	nt A complete	
j		inspection for this section is available on videolog 13 o	ir. V combiete	



SWS ENVIRONMENTAL SERVICE

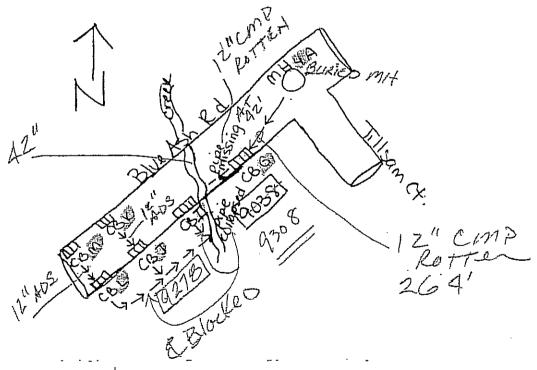
10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_12.xis

(t) 513-793-7417

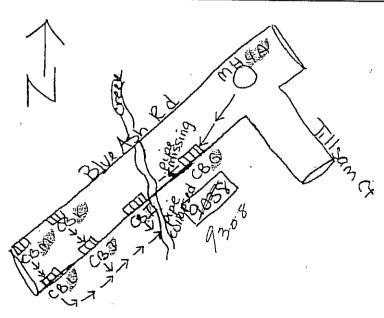
(f) 513-793-8751

1.5	SWS TV	INVESTIGATION	# doL	, Page 13	of 25
Date: 2/26/01	igentificial detection from the discovered by the plan and material to the	Investigator: Tim Bilby (SWS)	ere en production en la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la compan	Video Tape #:	antitis to a contraction of the contract to a contract point of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o
Area: Blue Ast	<u> </u>	Sub-Area:		Video Counter:	32:54 - 39:38
Complaint Address &	& Date:	City of Blue Ash, Railroad Ave.	. @ Hunt Road	Weather:	35 F
Jpstream MH Addre	ss:	I/O Tillsam Ct. & Blue Ash Rd.		Type of Pipe: Co	mugated Steel
Downstream MH Ad	dress:	9308 Blue Ash Road		Pipe Size (inch):	12.0
Line Location:	street			Pipe Length (ft.):	Unknown
Surface Cover:	asphalt	· · · · · · · · · · · · · · · · · · ·	erioren eta della di moderni della sella di 1888 i di 1888 i di 1888 i di 1888 i di 1888 i di 1888 i di 1888 i	TVd Distance (ft.):	210.6
PHYSICAL MEASUR	REMENTS:		MANHOLE DEPTHS:	USMH (ft.):	Buried
Section Ground Dista	ance:	Unknown		DSMH (ft):	Unknown
Condition: Being Inve	stigated: - ·	Pipe Condition			
ootage	Remarks	:	-		-
0.0	Catch basin	G U.S. to MH 4A			·
2.0 - 210.6+	Deterioration	intermittent rusting, primarily a	t flow line	_	
210.6	Debris	2 large piece of concrete or me	etal .		
210.6 .		Overlapped footage with came	ra, backed out.		
	<i>:</i> .				
		Note: Section requires cleaning	to remove 2 large pied	es of debris. CB H	does not
		exist (per hand drawn print pro-	·		
		going from MH 4A D.S. to CB (
		1,200	MEN A		

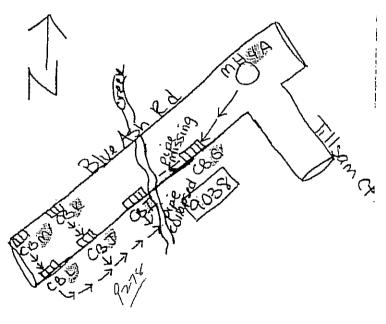


Filename: Blue_13.xls

2M2 IA	INVESTIGATION	Job#:	Page 1	14 of 25
Date: 2/26/0†	Investigator: Tim Bilby (SWS)		Video Tape #:	18 Bloom with an extent of many points of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition o
Area: Blue Ash	Sub-Area:		Video Counter.	39:38 - 42:10
Complaint Address & Date:	City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather	35 [
Upstream MH Address:	9308 Blue Ash Road		Type of Pipe: Cor	
Downstream MH Address:	9308 Blue Ash Road		Pipe Size (inch):	12,0
Line Location: street			Pipe Length (ft.):	Unknowr
Surface Cover: asphalt			TVd Distance (ft.):	
PHYSICAL MEASUREMENTS:		MANHOLE DEPTHS:	USMH (ft.):	· Unknowr
Section Ground Distance:	Unknown		DSMH (ft):	NA
Condition Being Investigated:	Pipe Condition		1	
ootage Remarks			*************************************	
0.0 Catch basin	G D.S. to Trunk Line (blind con	nection) ???		
2.0 - 42.0+ Deterioration	intermittent rusting, primarily at			
42.0 Pipe Missing	bottom, 4:00 to 8:00. Could no		ked camera out	
, w		oomana, bac		
tole the	Note: SWS performed a visual	nspection of the 6" line	es from MH A U.S	 5. to
1 1	CB A-2 and MH A U.S. to CB A			
	structural deficiencies. Could n			
•	Recommend that Blue Ash Pers			
	sideline to identify section condi		is and look up till	<u> </u>



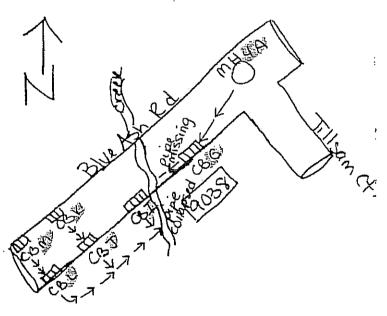
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Date: 2/26/01		investigator. Tim Bilby (SWS)	general and analysis of the second section of the second	Video Tape #	endrone producer and new control order to
Area: Blue Ash.		Sub-Area:		Video Counter	42:10 - 44
Complaint Address &	Date:	City of Blue Ash, Railroad Ave. @ He	unt Road	Weather:	
Jpstream MH Address	s:	9308 Blue Ash Road			3
Downstream MH Addr	ess:	9308 Blue Ash Road		Type of Pipe: Co	
ine Location:	street			Pipe Size (inch):	1
Surface Cover:	asphalt	_		Pipe Length (ft.): TVd Distance (ft.)	Unkno
PHYSICAL MEASURE	MENTS:	MAN	IHOLE DEPTHS:	the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the se	and the majority of the state of
ection Ground Distan	ce:	Unknown	HOLE DEPIRS:	USMH (ft.):	6
Condition Being Investi	gated:	Pipe Condition		DSMH (ft):	
ootage	Remarks				
0.0	Catch basin	I D.S. to T-connection (not shown on	viden tane)		
1.5	-Connection	at T-Connection. End of section.	video (ape)		<u> </u>
		Life of acciron.	,		
		Note: Looked downstream of T-Conne	ection towards cr	eek (trunk line)	
		Observed debris in line. Believe line h	neading toward tr	unk line is choke	d/blocked
		Unable to put camera in line in order t	o inspect going o	lownstream Ale	a looked
		upstream of T-Connection, pipe is ego	shaped Unabl	e to inspect coin	- Inches



Filename: Blue_15.xls

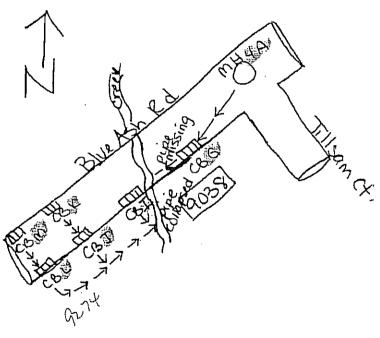
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	SWSTVI	NVESTIGATION	Job#:	Page 1	6 of 25
Date: 2/26/01	2007年100日	Investigator: Tim Bilby (SWS)		Video Tape #	u de la comunicación de la companya de la companya de la comunicación de la comunicación de la comunicación de
Area: Blue Ash		Sub-Area:		Video Counter:	44:31 - 45:09
Complaint Address & D	ate:	City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather ***	35 F
Upstream MH Address:		9728 Blue Ash Road	•	Type of Pipe: Cor	Tugated Steel
Downstream MH Addre	ss:	9728 Blue Ash Road		Pipe Size (inch):	12.0
Line Location: s	treet			Pipe Length (ft):	Unknown
Surface Cover: . a	sphalt .			TVd Distance (ft.):	0,0
PHYSICAL MEASUREN	MENTS:		MANHOLE DEPTHS:	USMH (ft.):	5' 9"
Section Ground Distanc	e: ·	Unknown	·	DSMH (ft):	NA
Condition Being Investig	gated:	Pipe Condition		f.	
Footage R	emarks				
0.0 C	atch basin	J D.S. to T-Connection			
		Note: Unable ot inspect from T-	Connection downstrea	ım toward CB l (c	amera
		too large to fit through bend). N	o structural deficienci	es or significant o	lebris was
		observed.			•



Filename: Blue_16.xls

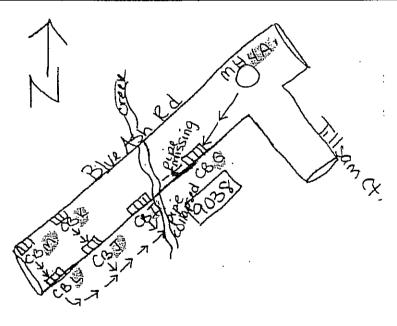
SM	VS TV	INVESTIGATION	Job #:	Deer 47	7 /05
Date: 2/26/01	ig al a	Investigator: Tim Bilby (SWS)	Ben kengalan di manganasi palam kat bengkari kempadan manilika ini ang da	Page 17	/ or 25
Areas Blue Ash	*	Sub-Area:		Video Tape #:	
Complaint Address & Date:		City of Blue Ash, Railroad Ave. @ Hu	nt Dood	Video Counter	45:09 - 46:04
Upstream MH Address:	·	9728 Blue Ash Road	III Noau	Weather.	35 F
Downstream MH Address:		9728 Blue Ash Road	<u> </u>	Type of Pipe: Pipe Size (inch):	Plastic
Line Location: street	<u> </u>			Pipe Length (ft.):	12.0 Unknown
Surface Cover. aspha	alt			TVd Distance (ft.):	0.0
PHYSICAL MEASUREMENT	rs:	MAN	HOLE DEPTHS:	USMH (ft.):	The state of the second second section is the second
Section Ground Distance:	- 13	Unknown		DSMH (ft):	5' 4"
Condition Being Investigated	i:	Pipe Condition		1991111 (11):	5' 9"
Footage Remai	rks		rousenie en en en en en en en en en en en en en	หลายคระทั่ง แบบที่มีการการเครื่องสาของ เป็นเต็ก (เราะ การการการการก	
0.0 Catch	basin	J U.S. to CB ⁻ K			
		Note: Looked upstream with camera to	owards CB K. Ab	le to observe dayli	aht from
<u> </u>		upstream catch basin. No significant o	iebris or structura	al deficiencies were	Observed
	<u> </u>	Instructed by Blue Ash personnel not to	o inspect entire s	ection if able to se	e through it.



Filename: Blue_17.xls

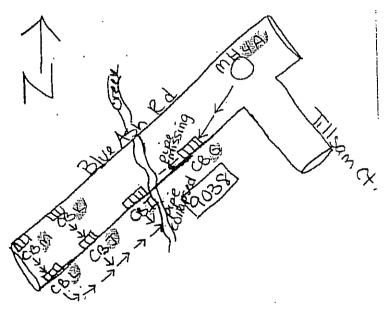
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	SWS TV	INVESTIGATION	Job#	v. Pagert	8 of 25.
Date: 2/2	26/01	Investigator: Tim Bilby (SWS)	100	Video Tape #	and a second disputes an expense of select to the top of second as there
Area: Blo	ue Ash.	Sub-Area:		Video Counter.	46:04 - 46:49
Complaint Add	dress & Date:	City of Blue Ash, Railroad Ave	e. @ Hunt Road	Weather	35 F
Upstream MH	Address:	9728 Blue Ash Road		Type of Pipe:	Plastic
Downstream N	MH Address:	9728 Blue Ash Road		Pipe Size (inch):	12.0
Line Location:	street			Pipe Length (ft.):	Unknown
Surface Cover	: asphalt			TVd.Distance (ft.):	0.0
PHYSICAL ME	EASUREMENTS:		MANHOLE DEPTHS:	USMH (ft):	5' 5'
Section Groun	d Distance:	Unknown		DSMH (ft):	4' 0"
Condition Bein	g Investigated:	Pipe Condition		•	
Footage	Remarks				
0.0	Catch basin	L U.S. to CB M			
ı		Note: Looked upstream with c	amera towards CB M. (Observed daylight	from
		upstream catch basin. No sig	nificant debris or structu	ıral deficiencies w	ere ·
		observed:			<u>-</u>



Filename: Blue_18.xis

#1807 SOSION SOSTORY COMPANIES L'ARROSS OF CONTROL	SWS TV	INVESTIGATION	Job:#	Page 1	9 of 25
Date: 2/26/0	1.	Investigator: Tim Bilby (SWS)	·	Video Tape#	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
Areas: Blue A	sh	Sub-Area:		Video:Counter:	46:49 - 48:56
Complaint Address	& Date:	City of Blue Ash, Railroad Ave	. @ Hunt Road	Weather.	35 F
Upstream MH Add	ress:	9728 Blue Ash Road		Type of Pipe:	Plastic/Steel
Downstream MH A	ddress:	9728 Blue Ash Road		Pipe Size (inch):	12.0
Line Location:	street			Pipe Length (ft.):	Unknown
Surface Cover:	asphalt			TVd Distance (ft.):	0.0
PHYSICAL MEASL	JREMENTS:		MANHOLE DEPTHS:	USMH·(ft.):	5' 5"
Section Ground Dis	stance:	Unknown		DSMH (ft):	NA
Condition Being Inv	estigated:	Pipe Condition		<i>(** * * * * * * * * * * * * * * * * * *</i>	
Footage	Remarks				
0.0	Catch basin	L D.S. to 42" trunk line			
4.0.	Pipe Missing	right side, observed tree roots	and debris		
4.0		Camera could not continue du	e to pipe missing, back	red out.	
			•		
		Note: SWS Inspected connect	ion of 12" with 42" trun	k line. Line is blo	cked
	-	with shapeloss.			



Filename: Blue_19.xls

	SWS TV	INVESTIGATION	Job #t	Page 2	20 of 25
Date: 2/26/01		Investigator: Tim Bilby (SWS	}	Video Tape #.	Committee of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont
Area: Blue Asi	1 -	Sub-Area:		Video Counter.	48:56 - 49:3
Complaint Address &	& Date:	City of Blue Ash, Railroad A	ve. @ Hunt Road	Weather	35
Jpstream MH Addre	SS:	I/O Alpine & Blue Ash Road		Type of Pipe:	Conc
Downstream MH Add	dress:	I/O Alpine & Blue Ash Road		Pipe Size (inch):	12.
Line Location:	street			Pipe:Length (ft.):	Unknow
Surface Cover.	asphalt			TVd Distance (ft.):	0.0
PHYSICAL MEASUR	REMENTS:		MANHOLE DEPTHS:	USMH (ft.):	1' 5
Section Ground Dista	ance:	Unknown		DSMH (ft):	11.5
Condition Being Inve	stigated:	Pipe Condition		· •	
Footage	Remarks			regarding section in a project control of a person of Person of a person of a residence of	
0.0	Catch basin	O U.S. to CB N			
				<u> </u>	
		Note: Looking upstream with	camera. Unable to put	camer in line to in	spect.
		Able to see upstream catch	basin. Did not observe a	ny significant deb	ris or
	i ·	structural deficiencies.	V.	TRAFIED	
		· N A	POU MISE PAGE ZI -	LAY EX CONTAINED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED POPULATED	ipe e
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SWS ENVIRONMENTAL SERVICE

1 0860 INDECO DRIVE CINCINNATI, OH 45241

Fllename: Blue_20.xis

(t) 513-793-7417

(f) 513-793-8751

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	SWS T∨	INVESTIGATION	Job#:	Page 21 of 2	25
Date: 2/26/0)†	Investigator: Tim Bilby (SWS)	Video Tape #:	
Area: Blue A	Ash	Sub-Area:		Video Counter: 49:35	- 1:02:18
Complaint Addres	s & Date:	City of Blue Ash, Railroad Av	/e. @ Hunt Road	Weather	35 F
Upstream MH Add		I/O Alpine & Blue Ash Road		Type of Pipe:	Vit
Downstream MH /	Address:	9012 Blue Ash Road		Pipe Size (inch):	12.0
Line Location:	easement 			Pipe Length (ft.):	2.0
Surface Cover:	soil			TVd Distance (ft.):	213.9
PHYSICAL MEAS			MANHOLE DEPTHS:	USMH (ft.):	1' 5"
Section Ground D		Unknown		DSMH (ft):	2' 0"
Condition Being Ir Footage	Remarks	Pipe Condition			
-		O D S to Observat A	-		
0.0	Catch basin	O D.S. to Chamber 1A			<u></u>
	5 Pipe Missing	right side, 12:00 to 5:00, larg	je hole		
6.0	Crack	light at joint, radial			
10.5	Crack	light at joint			
30.5	Crack	light at joint			
34.4	Crack	light at joint			
42.0 - 48	.7 Crack	light at 12:00			
48.7	Crack	light at joint			
52.7	Crack	light at joint			
54.6 - 112	0 (Roots)	light at joints, various (roots	generally are light)		
62.9	Crack	light at joitn, radial, medium	•		
67.7	(Pipe Missing)	chipped pipe at 9:00 w/roots			
112.8	Crack	light at joint			
119.0	Crack	light at joint			
123.0	Crack	light at joint			
128.2	Tap	9:00 first joint is offset, open,	small piece of pipe mis	sina	
129.4	Crack	light at joint			
133.0	Crack	light at joint			m.i.
135.2	Crack	light at joint			
139.2	Crack	light at joint, radial			
	0 Crack	light at 12:00			
174.5	Tap	10:00, medium debris, possib	ple pipe change 1' to 2' u	pstream	
	O(Roots)	light at joint			
185,5	Crack	light at joint		7	<u> </u>
194.9	(Tap)	9:00 w/medium debris and lig	ht roots, open at invert	(SAHITARU =)
197.0	Crack	light, various_			
198.6	(Pipe Missing)	left side w/mud feeding in		•	
205.3	Pipe Missing)	9:00, possible broken tap, full	of debris, mud feeding	în	
210.8	(Tap\)	break-in 2", 10:00, vit w/medi	um cracks inside		
213.9	Chamber	middle of Chamber 1A. End			

· Note: Chamber 1A is not buried. Can see daylight through lid on video.

SWS TV	INVESTIGATION	Job #:	Pag a 21 4 , of	25:
Date: 2/26/01	Investigator: Tim Bilby (SWS)		Video Tape #	**************************************
Area: Blue Ash	Sub-Area:		Video Counter: 49:3	5-1:02:18
Complaint Address & Date:	City of Blue Ash, Railroad Ave	. @ Hunt Road:	Weather:	35 F
Upstream MH Address:	I/O Alpine & Blue Ash Road		Type of Pipe:	Vit
Downstream MH Address:	9012 Blue Ash Road		Pipe Size (inch):	12.0
Line Location: easement			Pipe Length (ft.):	2.0
Surface Cover: soil			TVd Distance (ft.):	213.9
PHYSICAL MEASUREMENTS:		MANHOLE DEPTHS:	USMH (ft.):	1' 5"
Section Ground Distance:	Unknown		DSMH (ft):	2' 0"
Condition Being Investigated:	Pipe Condition			
Footage Remarks			discount and the second discount and the second second second second second second second second second second	
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SWS ENVIRONMENTAL SERVICE 10860 INDECO DRIVE CINCINNATI, OH 45241

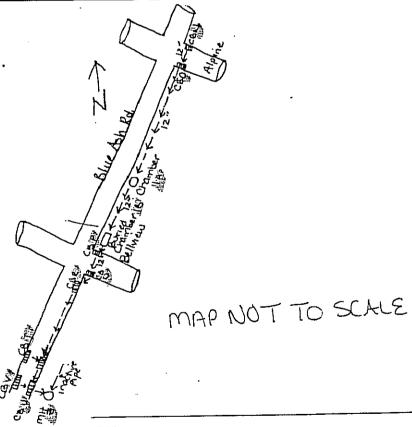
Filename: Blue_21.xis

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Date: 2/25/01	Investigator: Tim Bilby (SWS)		Video Tape#	THE PART OF THE PART OF THE PART
Area: Blue Ash	Sub-Area:		Video Counter: 1:02:18	- 1:12:40
Complaint Address & Dat	te: City of Blue Ash, Railroad Ave.	@ Hunt Road	Weather	35 F)
Upstream MH Address:	9012 Blue Ash Road		Type of Pipe:	(Vit
Downstream MH Address			Pîpe Size (înch):	12.0
	sement		Pipe Length (ft.):	2.0
Surface Cover: soi			TVd Distance (ft.):	165.2
PHYSICAL MEASUREME		MANHOLE DEPTHS:	USMH (ft.):	2' 0"
Section Ground Distance: Condition Being Investigat		· · · · · · · · · · · · · · · · · · ·	DSMH (ft):	Buried
tank ing Palikulan kungam meruntuh kalun ada Palikulan dan banya menjada	marks			
	amber 1A D.S. to Chamber 1B		· · · · · · · · · · · · · · · · · · ·	
3.9 Cra				
6.0 Cra				
14.7 (Tar		e inside ·		
16.3 Cra	-70			
37.3 (Tap		t ·		
38.3 Cra	ck heavy at joint			
40.6 Off-	set joint) 1" - 2"			
42.5 COff-	set joint) 1" - 2", appears to be open too		<u></u>	
44.0 - 72.0 Cra	ck light, various 3:00, 6:00, 9:00, 12	2:00		·
65.4 Cra	ck 9:00, collapsed, open at invert w	//mud feeding in, first joir	nt dropped	
71.6 Hole	2 12:00, pick hole		·	
78.4 Crad	ck light at joint		à	
80.6 Crad	ck light at joint			
86.0 Crac	ck light at joint			
90.3 Crac	ck light at joint			*
96.2 Crad				
110.4 Crad			:	-
120.3 Crac				
128.6 Crac				
100.2 Char	mber at Chamber 1B (buried). End of	section.		
	Notes I and the second	000		
	Note: Looked upstream towards			
-	structural deficiencies. See video	tape prior to 1:12:40 m	inutes. It is a 12"	
	line, corrugated steel.			

SWS-T\	/ INVESTIGATION	Job#	्रे 🎉 Page 22 of 25	this of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section o
Date: 2/26/01	Investigator: Tim Bilby (SWS)		Video Tace #:	
rea: Blue Ash	Sub-Area:			-1:12:4
Complaint Address & Date:	City of Blue Ash, Railroad Ave	. @ Hunt Road	Weather."	35
pstream MH Address;	9012 Blue Ash Road		Type of Pipe:	V
ownstream MH Address:	I/O Beliview & Blue Ash Road		Pipe Size (inch):	12.
ne Location: easement			Pipe Length (ft.):	2.
rface Cover. soil			TVd Distance (ft.):	165.1
YSICAL MEASUREMENTS:		MANHOLE DEPTHS:	USMH (ft.):	2' (
ction Ground Distance:	Unknown		DSME (ft):	Burie
ndition Being Investigated:	Pipe Candition			No. of Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to
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Date 2/26/	/ 0 1	Company Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Comm	Investigator: Tim Bilby (SWS)	inca(1) 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Video Fape#	
Area: Blue			Sub-Area:		Video Counter: 1:1:	2:40 - 1:13:10
Complaint Addre	ess &	Date:	City of Blue Ash, Railroad Ave	. @ Hunt Road	Weather	35 F
Upstream MH Ac			I/O Bellview & Blue Ash Road		Type of Pipe: Cor	rugated Steel
Downstream MH			I/O Bellview & Blue Ash Road		Pipe Size (inch):	12.0
Line Location:		street			Pipe Length (ft.):	Unknown
Surface Cover.		asphalt			TVd Distance (ft.):	0.0
PHYSICAL MEA	SUR	weight a look of a law seems as a promise of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	MANHOLE DEPTHS:	USMH (ft.):	2' 0"
Section Ground			Unknown		DSMH (ft):	3' 0"
Condition Being			Pipe Condition		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	or and a second limited and a second limited limited and
Footage		Remarks	and a first that is the first provided and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the seco			
0.0		Catch basin	Q U.S. to CB P			
1.0 -	+	Debris	medium sand and gravel.		·	
			Unable to continue due to deb	oris, backed camera out.		
			Note: Section needs to be cle	aned. Able to see daylig	tht from CB P.	
		<u> </u>		<u> </u>		



SWS ENVIRONMENTAL SERVICE -

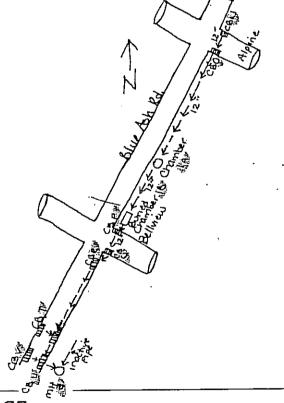
1 0860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_23.xis

(t) 513-793-7417

(f) 513-793-8751

	SWS TV	INVESTIGATION	Job#.	Page 24 of :	25
Date: 2/26	5/0‡	Investigator: Tim:Bilby (SWS):		Video:Tape #:	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Area: Blue	e Ash	Sub-Area:		Video Counter: 1:13:	10-1:13:32
Complaint Addr	ress & Date:	City of Blue-Ash, Railroad Ave	@ Hunt Road	Weather:	35 F
Upstream MH A	Address:	I/O Bellview & Blue Ash Road		Type of Pipe:	PVC
Downstream M		I/O Beliview & Blue Ash Road		Pipe Size (inch):	12.0
Line Location:	easement			Pipe Length (ft.):	Unknown
Surface Cover.	soil			TVd Distance (ft.):	0.0
PHYSICAL ME	ASUREMENTS:		MANHOLE DEPTHS:	USMH (ft.):	3' 0"
Section Ground	Distance:	Unknown.	•	DSMH (ft):	2° 4°
Condition Being	ı Investigated:	Pipe Condition			
Footage	Remarks			•	
0.0	Catch basin	Q D.S. to CB R			
· · · · · · · · · · · · · · · · · · ·		Note: Looked downstream from	n CB Q towards CB R.	Light debris was obse	rved.
		Did not observe any structural	deficiencies.		
			~		,

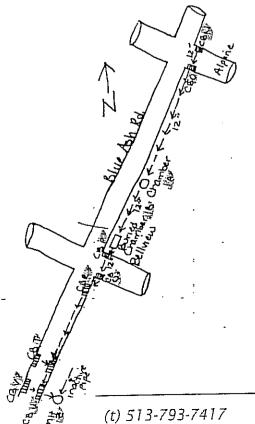


SWS ENVIRONMENTAL SERVICE

10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_24,xls

		SWS TV I	NVESTIGATION	Job#:	Page 25 of 25	
Date:	2/26/01	to a fine the second property of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	Investigator: Tim Bilby (SWS)	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	Video Tape #	
Area:	Blue Ash		Sub-Area:		Video Counter: 1:13:3:	2 - 1:22:43
	Address &	Date:	City of Blue Ash, Railroad Ave. @	Hunt Road	Weather:	35 F
	MH Addres		I/O Bellview & Blue Ash Road		Type of Pipe:	PVC.
	m MH Add		near I/O Bellview & Blue Ash Roa	ıd	Pipe Size (inch):	12.0
Line Locati		street			Pipe Length (ft.):	13.0:
Surface Co	ver.	asphalt			TVd Distance (ft.):	253.0
PHYSICAL	MEASUR	EMENTS:		MANHOLE DEPTHS:	USMH (ft.):	2' 4"
Section Gr			Unknown		DSMH (ft):	Unknown
Condition E			Pipe Condition			
Footage	saaris oo lee laa ka ka ka ka ka ka ka ka ka ka ka ka k	Remarks			10.4 I	
0,0	<u> </u>	Catch basin	R D.S. to CB S		ر مرازش از از از از از از از از از از از از از	
2.0 -	20.0	Debris	light, sand and gravel		- The state of the	}
38.0 -	45.0	Debris	light, sand and gravel		Margar	
69.5 -	, 73.0	Crack	light at 11:00 down to 8:00, proal	bably a saw cut		
69.5		Crack	light, radial, left side		•	
73.0		Crack	light, radial, left side			
140.0 -	253.0+	Debris	light; leaves, mud and sludge			
185.4 -	188.0	Crack	light at 11:00, probably a saw cut	t		
186.4		Broken Pipe	small hole, 11:00 w/light debris fa	alling in & light infiltratio	on	
190.0 -	.217.0	Ronding	belly, due to debris in line			
240.0 -	253.0+	Ponding)	belly, due to debris in line			
253.0		Catch basin	middle of CBS. End of section.			



SWS ENVIRONMENTAL SERVICE 10860 INDECO DRIVE

CINCINNATI, OH 45241 Filename: Blue 25.xis

(f) 513-793-8751

, ,	SWS T	V INVESTIC	BATION	Job#.	Page 1 o	of 7
Date 1/2 2/27/04		investigator:	Tim Bilby (SWS)	· Light House Estate	Video Tape #	动道指抗力等等的
Area Blue Ash		Sub-Area	44 (A 1988) 4 miles (4 miles)		Video Counter.	00:00 - 00:52
		City of Blue A	Ash, Railroad Ave. @	Hunt Road	Weather, Weather	學達40 F
Upstream MH Addre		- 8968 Blue As		•	Type of Pipe: */ **	COMPANDIO
Downstream MH Add		8968 Blue As	h Road		Pipe Size (inch):	(12.0
Line Location:	street		•		Pipe Length (ft.):	Unknown
Surface Cover:	asphalt				TVd Distance (ft.):	. 0.0
PHYSICAL MEASUR	EMENTS:	1	·	MANHOLE DEPTI	HS: USMH (ft.):	1! 8"
Section Ground Dista		に は 型 の known の に に に に に に に に に に に に に		المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة المنافعة الم	學道 DSMH (ft): 「學」	完革第二届2°7°。
Condition Being Inve	7 24 Pr 1 2 Pr 4Pr 1	Pipe Conditio			ma characta billiam	40年2月2日1日
Footage乳类的	man ili monto per a menerale de	anners of the figure of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	. १८६७ - १ मेड १४ - १४ - १४ व्यक्ति स्टब्स्ट्स	Company Company (Control of Control The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	では は は ない ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	
0.02	Catch basin		IT.		11/2	у :
0.0	Galon basin					
	-	Note: Perfor	med a visual inspect	ion with the came	era. Camera unable to	fit in line.
	•				lean and appears to hav	
<u> </u>	 	deficiencies.		:		
MAP NO-	τ το -				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	· 中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国
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Filename: Blue_26.xls

	SWS TV	NVESTIGAT	ION	Job#:	Page 2 of 7	7
pate 2/27/01途	調調的可求	Investigator Tim E	liby (SWS)	震争でない ・・・	Video Tape #	(地址)
rea Blue Ash	建設 到产产设置	Investigator Tim E Sub-Area	學的經濟學			00:52 - 01:27
Complaint Address &	Date: 조건 추가	City of Blue Ash, R	lailroad Ave. @ H	unt Road	Weather Weather	40 F
Jpstream MH Addres	s. 1-0.	8968 Blue Ash Roa	id 一个个条据理点	· - · · · · · · · · · · · · · · · · · ·	Type of Pipe:	PVC
Downstream MH Addi		8968 Blue Ash Roa	ıd	<u></u>	Pipe Size (inch):	12.0
ine Location: 🤲	street				Pipe Length (ft.):	Unknowr
Surface Cover:	asphalt				TVd Distance (ft.):	0.0
HYSICAL MEASURE	EMENTS:		· M/	ANHOLE DEPTH		<u>. 2'7</u>
Section Ground Distar	nce: The son Me	Unknown And And And	培养的新疆等的	64 <u></u>	DSMH*(ft)	/ 安泰2"2
ondition Being Inves	tigated:	Pipe Condition			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	en en 18.8 de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la comp
ootage ****	Remarks	र्वे । १ जन्मक १५ - जन्म	र पुन्यक्षदेश क्षेत्र करण १००	2**	· · · · · · · · · · · · · · · · · · ·	
0.0	Catch basin	S D.S. to CB U				
	Debris	pipe is approxima	tely 1/2 full with d	ebris and water	·	
0.0	DODAIG				•	
<u>:</u>		N. I. D. formand	il isopostica	with the camer	a. Camera unable to fit	
	<u>-</u>					
	· 表数: 翻译: 17.54	in line. Able to se structural deficien	e daylight from C	atch Basin U. D	id not observe any	l.,
MAPNO		XA(Z		THE TANK		

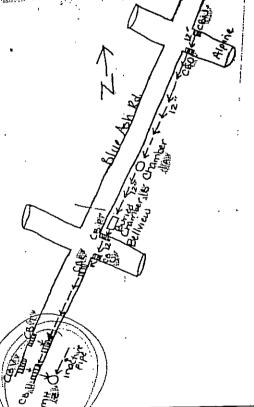
Blue_27.xls

Filename:

SWS TV INVESTIGATION Date 2/27/01 Investigator, Tim Bilby (SW Area Blue Ash Sub-Area	Job #: /S)	Page 3 of 7
real Blue Ash Sub-Area	/S)PHEERS AND AND AND AND AND AND AND AND AND AND	Video Tabe # 30 10 10 10 10 10 10 10 10 10 10 10 10 10
real Blue Ash Sub-Area	· 本語 《	
· _ ·	Ale at the characters	Video Counter: 01:27 - 02:06
complaint Address & Date: City of Blue Ash, Railroad A	Ave. @ Hunt Road	Weather 40 F
Ipstream MH Address: 8968 Blue Ash Road	- di Massirità	Type of Pipe: PVC
Downstream MH Address: 8968 Blue Ash Road	· ; · · _	Pipe Size (inch): 12.0
ine Location: street		Pipe Length (ft.): Unknown
Surface Cover: asphalt		TVd Distance (ft.): 0.0
HYSICAL MEASUREMENTS:	MANHOLE DEPTHS:	USMH (ft.): 3' 0"
ection Ground Distance		DSMH (ft): 2"2"
condition Being Investigated: Pipe Condition		
ootage W Remarks	ক প্রিয় ে ক	
Catch basin UU.S. to CB V		
0.0 - + Ponding appears to be a belly on do	ownstream end.	
		-
Note: Since camera would	not fit in line, performed a	visual inspection from
Catch Basin U, pipe is ope	n and clean. Did not obser	rve any structural
deficiencies within this sec		
	,, 1 = ·	1
MAP NOT TO SCALE		
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	'	9 /2
		4 /4
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	T-	- 大野 3
	/ F	
	/ //	<u>.</u>

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- 회장 등 - 위 : 하시아 씨			
SWS TV INVESTIGATION	Job#	Page 4 c	the take and their control frame? I see a wife to
date 2/27/01 Investigator Inm Bilby (SWS	P 東部等新語語等	Video Tape #:	5.4000000000000000000000000000000000000
Trea Blue Ash Sub-Area	· · · · · · · · · · · · · · · · · · ·	Video Counter.	02:06 - 02:28
Complaint Address & Date: City of Blue Ash, Railroad A	/e. @ Hunt Road	Weather:	40 F
Jostream MH Address: 8968 Blue Ash Road	e i e e proprio de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la compansa de la	Type of Pipe:	PVC
Downstream MH Address: 8968 Blue Ash Road		Pipe Size (inch):	12.0
ine Location: street street		Pipe Length (ft.):	Unknown
Surface Cover: asphalt		TVd Distance (ft.):	0.0
Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	MANHOLE DEPTHS:	USMH (ft.):	2' 2'
PHYSICAL MEASUREMENTS: Section Ground Distance: Unknown	- 平の機能電影響というに	DŚMH (ft):	V HARRIE
condition Being Investigated Pipe Condition			
ootage TT 有联系 Remarks 、运动场外系统运动场。 A.语 主持	Service .		
0.0 Catch basin U.D.S. to MH Z	<u> </u>		
0.0			
Note: Performed a visual ins	spection with the camera l	ooking toward MH	<u>Z.</u>
MH Z is approximately 2 fee			
deficiencies.			. (3)
MON DOT TO CONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~ / 7	

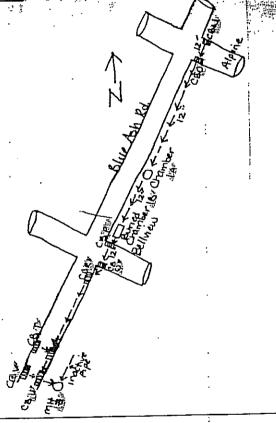


SWS_ENVIRONMENTAL SERVICE

10860 INDECO DRIVE : CINCINNATI, OH 45241

Filename: Blue_29.xls

SWS TV INVESTIGATIO	N Job#.	Page 5.o	f 7
Date: 2/27/01 全面的 Investigator Tim Bliby	/ (SWS)F:冰岸線管理所需整備	Video Tape #:	v : p已起腹部结
Area Sub-Area	2977	Video Counter.	02:28 - 02:43
Complaint Address & Date: City of Blue Ash, Railr	oad Ave. @ Hunt Road	Weather:	40 F
Jpstream MH Address 8968 Blue Ash Road	2000年1月1日	Type of Pipe:	PVC
Downstream MH Address: 8968 Blue Ash Road		Pipe Size (inch):	· 12.0
Line Ecoation: Single-street		Pipe Length (ft.):	Unknown
Surface Cover: asphalt		TVd Distance (ft.):	0.0
PHYSICAL MEASUREMENTS:	MANHOLE DEPTHS:	USMH (ft.):	2' 7"
Section Ground Distance Section Ground Distance		DSMH (ft):	2"2"
Condition Being Investigated: Pipe Condition			
ootage Remarks		'	1. 经加度的 3年發展
Catch basin U U.S. to CB S		<u> </u>	<u>}</u> ,
Oddan bashir C E.S. to CE	•		
Note: Performed a vis	sual inspection from CB S D.S. t	o CB U. Previously	sws
	from 00:52 to 01:27 minutes. F		
debris.		- -	
MAP NOT TO SCALE	Production to the production of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		/ 7



SWS_ENVIRONMENTAL_SERVICE 10860 INDECO DRIVE CINCINNATI, OH 45241 Filename: Blue_30.xls

·	SWS TV I	NVESTIGATION	Job#:	Page 6 of 7
Date: 2/27/01	成時時,中國計畫第	Investigator: Tim Bilby (SWS)		Video Tape # 過過過過
Area: Blue Ash		Sub-Area:	不作到原始的 對	Video Counter: 02:43 - 04:04
Complaint Address &	Date: ਾ ਜੇਜ਼ਿਸ਼ਾਵੀ	City of Blue Ash, Railroad Ave.		Weather 第二次 19440 F
Upstream MH Addre	SS; 46- 1	8968 Blue Ash Road		Type of Pipe: Conc
Downstream MH Add	dress:	8968 Blue Ash Road	<u> </u>	Pipe Size (inch): 18.0
Line Location:	street .	:	<u>:</u>	Pipe Length (ft.): Unknown
Surface Cover.	asphalt		entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya	TVd Distance (ft.): 0.0
PHYSICAL MEASUR	REMENTS:	•	MANHOLE DEPTHS:	USMH (ft.):
Section: Ground Dista	ance: ப்பூர்க்கு	Unknown。非常可能		DSMH (m)言言"在证法"。
Condition Being inve	stigated:	Pipe Condition		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Footage 李德特 **	Remarks ************************************	海海野は 一年前 ましいかけい かっかき まっちゅう	1 (1 6, km) 4kg	प्रकृतिकार्यक्रम् कृतिकृति । । । । । । । । । । । । । । । । । । ।
0.0	Manhole	Z D.S. towards Creek		
0.0	Debris ⁻	heavy sand with ponding wate	r. Camera unable to cor	ntinue, backed out.
	1			
	· ·	Note: Performed a visual inspe	ection with the camera.	Pipe is 1/2 full of water
	:	and debris, section needs clea	V V	· // · ·
MAPN	OT 10 S			
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	· <u>:</u>			
			A STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE	i in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second
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SWS_ENVIRONMENTAL SERVICE

10860 INDECO DRIVE CINCINNATI, OH 45241

Filename: Blue_31.xis

SWS TV INVESTIGATION Job #:	Page 7	of 7
Date: 2/27/01 Investigator: Fim Bilby (SWS)	Video Tape #	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Area Blue Ash	Video Counter:	04:04 - 04:46
Complaint Address & Date: Secity of Blue Ash, Rallroad Ave. @ Hunt Road	Weather.	40 F
Ipstream MH Address: 8968 Blue Ash Road	Type of Pipe:	Cond
Downstream MH Address: 8968 Blue Ash Road	Pipe Size (inch):	18.0
ine:Location: street :	Pipe Length (ft.):	Unknowr
Surface Cover. asphalt	TVd Distance (ft.):	0.0
PHYSICAL MEASUREMENTS: MANHOLE DEPT	HS: USMH (ft.):	
ection Ground Distance: Unknown	DSMH (ft):	一十八十二
andition Being Investigated: Pipe Condition		j
ootage 不是一种 Remarks 一种 医中央性 中国 中央 中央 中央 中央 中央 中央 中央 中央 中央 中央 中央 中央 中央		
0.0 Manhole Z.U.S. to 6" line (inactive)		
	//:	1
Note: Performed a visual inspection with the came	era Pine is 3/4 full of o	lehris /
	51a. 1 tpe is 514 fail or 0	
and water Section needs cleaned		
MAP NOT TO SCALE		
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	15	
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